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BAKHADYRKHANOV, M. K.
Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]

BALABANOV, V. N.
Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]

BAMBUROV, V. G.
The Magnetic Properties of $EuLa_2O_4$ at Low Temperatures. (E) A. A. Samokhvalov, Yu. N. Morozov, V. G. Bamburov, N. V. Volkenshtein, and T. D. Zotov. 10, 1729 (1969) [10, 2206 (1968)]

BAN'KOVSKII, N. G.
Investigation of the Adsorption of Potassium Ions on the Surface of Molybdenum. (E) N. G. Ban'kovskii, E. M. Stefanovskaya, and V. P. Fedorinov. 10, 113 (1968) [10, 153 (1968)]
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mul'tanovskaya. 10, 397 (1968) [10, 507 (1968)]

BAPTIZMANSKII, V. V.
Secondary Free-Radical Processes Occurring during Mechanical Breakdown of Solid Polymers. (E) V. A. Zakrevskii, V. V. Baptizmanskii, and É. E. Tomashevskii. 10, 1341 (1968) [10, 1699 (1968)]

BARAN, N. P.
Temperature Dependence of the Hyperfine Interaction Constants of F Centers in LiF. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 996 (1968) [10, 1250 (1968)]
Quadrupole and Second-Order Effects in the Electron-Nuclear-Double-Resonance Spectra of F-Centers in KCl Due to Interactions with a K^{41} Isotope. (E/T) N. P. Baran, M. F. Deigen, V. Ya. Zevin, and M. A. Ruban. 10, 2640 (1969) [10, 3342 (1968)]
Electron-Nuclear Double Resonance of A Centers in Mixed KCl + LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]

BARANOV, I. A.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Bolkova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

BARANOV, P. G.
Matrix Displacements of the Hyperfine-Structure Constant of Stabilized Manganese Atoms. (T/E) P. G. Baranov and R. A. Zhitnikov. 10, 2592 (1969) [10, 3279 (1968)]

BARINOV, G. V.
Relaxation Processes in $BaTiO_3$ Single Crystals Subjected to Unidirectional Mechanical Pressure Pulses. (E) E. V. Sinyakov, S. A. Flerova, and G. V. Barinov. 10, 415 (1968) [10, 529 (1968)]

BARSHCHEVSKII, B. U.
The Photoelectric Properties of AgBr and Other Silver Halide Films. (E/T) B. U. Barshchevskii. 10, 2930 (1969) [10, 3689 (1968)]

BARSUKOV, Yu. K.
Microwave Properties of VC-7 Film Varicons. (E/T) Yu. K. Barsukov and T. N. Verbitskaya. 10, 2711 (1969) [10, 3428 (1968)]

BARTS, B. I.
Theory of Scattering of Slow Neutrons in Paramagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and B. I. Barts. 10, 2483 (1969) [10, 3142 (1968)]

BAR'YAKHTAR, V. G.
The Spin Wave Spectrum in Antiferromagnets. (T) V. G. Bar'yakhtar and V. A. Popov. 10, 605 (1968) [10, 773 (1968)]
Theory of Nuclear Magnetic Resonance in Ferromagnets. (T) V. G. Bar'yakhtar, S. V. Peletminskii, and É. G. Petrov. 10, 615 (1968) [10, 785 (1968)]
Magnetoelastic Pulses in an Inhomogeneous Magnetic Field. (T) V. G. Bar'yakhtar and V. V. Gann. 10, 1832 (1969) [10, 2327 (1968)]
The Transformation of Magnetic Oscillations into Elastic Waves in Antiferromagnets. (T) V. G. Bar'yakhtar, V. V. Gann, and V. P. Krasnov. 10, 1837 (1969) [10, 2335 (1968)]
Phenomenological Theory of a Ferroelectric Magnet. (T) V. G. Bar'yakhtar and I. E. Chupis. 10, 2818 (1969) [10, 3547 (1968)]

BARYSHNIKOV, V. G.
Description of Intercrystallite Thermoelastic Internal Friction Using the Von Karman Correlation Function. (T) T. D. Shermergor and V. G. Baryshnikov. 10, 1709 (1969) [10, 2183 (1968)]

BASETSKII, V. Ya.
Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigailis, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]

BASHIROV, F. I.
Relation between the Magnetic Dipole and Electric Quadrupole Interactions of the Nuclei in Metallic Aluminum. (E) K. S. Saikin, O. A. Andreeva, Yu. L. Popov, F. I. Bashirov, and R. A. Dautov. 10, 2558 (1969) [10, 3233 (1968)]

BASHIROV, R. I.
Fine Structure of the Oscillation Maxima of Magnetoresistance in n-InAs. (E) R. I. Bashirov. 10, 1994 (1969) [10, 2534 (1968)]

BASS, F. G.
Electrodynamics of a Crystal with Fluctuating Parameters. (T) F. G. Bass, G. A. Beziashvili, and Yu. S. Monin. 10, 2822 (1969) [10, 3553 (1968)]

BATYGIN, V. V.
Influence of the Structure of a Substance on the Coincidence Bremsstrahlung Spectrum. (T) V. V. Batygin. 10, 580 (1968) [10, 740 (1968)]

BAZANOV, V. T.
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mul'tanovskaya. 10, 397 (1968) [10, 507 (1968)]

BAZHENOV, V. K.
Paramagnetic Resonance in Fe-Doped Gallium Arsenide. (E) V. K. Bazhenov, V. A. Presnov, and S. P. Fedotov. 10, 205 (1968) [10, 268 (1968)]

BAZHIN, A. I.
Mechanism of Radical Recombination Luminescence of Solids with a Wide Forbidden Band. (E) A. I. Bazhin, V. V. Styrov, and V. A. Sokolov. 10, 712 (1968) [10, 908 (1968)]

BEILIN, V. M.
Elastic Moduli of Heavily Doped n-Type Germanium at 300–550°K. (E) V. M. Beilin, Yu. Kh. Vekilov, A. E. Kadyshevich, and O. M. Krasil'nikov. 10, 1226 (1968) [10, 1550 (1968)]
Temperature Dependence on the Elastic Constants of Heavily-Doped Gallium Arsenide. (E) V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov. 10, 2443 (1969) [10, 3101 (1968)]

BELEN'KII, G. L.
Nature of Infrared Luminescence (λ_m = 1.2 μ) in CdSe Single Crystals and Its Relationship to Photoconductivity. (E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 1394 (1968) [10, 1769 (1968)]
Mechanisms for Orange, Red, and Infrared Photoluminescence in CdS Single Crystals and Parameters of the Corresponding Luminescence Centers. (T/E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 2069 (1969) [10, 2628 (1968)]

BELIKOV, A. M.
Characteristic Features of the Structure of Copper Whiskers Deformed by Torsion. (E) V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer, and V. I. Koltunov. 10, 516 (1968) [10, 652 (1968)]

BELONOGOV, V. K.
Stresses in Epitaxial Films. (E) V. S. Postnikov, V. M. Ievlev, V. K. Belonogov, and I. V. Zolotukhin. 10, 722 (1968) [10, 917 (1968)]

BELOV, K. P.
Anisotropy of the Paramagnetic Curie Point in Hexagonal Ferrites. (E) K. P. Belov, L. I. Koroleva, and L. P. Mitina. 10, 2329 (1969) [10, 2950 (1968)]
Magnetostriction of Paramagnetic Rare-Earth Gallates and Germanates with a Garnet Structure. (E) K. P. Belov, V. I. Sokolov, and Than Dyk Hien. 10, 2946 (1969) [10, 3706 (1968)]
The Influence of Exchange Interaction on the Ordering of Holmium Ions in Orthoferrites of the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]

BELOV, M. V.
Nonsteady-State Amplitude-Dependent Internal Friction. (T) T. D. Shermergor and M. V. Belov. 10, 2058 (1969) [10, 2612 (1968)]

BELOZOROV, D. P.
The Fluctuations and Scattering Processes of Slow Neutrons and Electromagnetic Waves in Ferromagnets Having Small Magnetic Anisotropy. (T) I. A. Akhiezer and D. P. Belozorov. 10, 2835 (1969) [10, 3571 (1968)]

BELOZEROVA, Ė. P.
Internal Stress in Crystals of Ultrasonically Strained Lithium Fluoride. (E) Ė. P. Belozerova, N. A. Tyapunina, and F. A. Kazak. 10, 2812 (1969) [10, 3540 (1968)]

BELYAEV, I. N.
Preparation and Properties of Cadmium Hafnate. (E) L. N. Aver'yanova, I. N. Belyaev, Yu. I. Gol'tsov, L. A. Solov'ev, R. I. Spinko, and O. I. Prokopalo. 10, 2698 (1969) [10, 3416 (1968)]

BELYAEV, L. M.
The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]
Decomposition of Several Alkali-Halide Crystals by Laser Radiation and Evaluation of Their Optical Stability. (E) L. M. Belyaev, A. N. Golovistikov, and V. V. Nabatov. 10, 2972 (1969) [10, 3733 (1968)]

BELYAEV, V. D.
The Effect of Dislocations Upon the Development of Electrolytic Crystal Coloration. (E) V. D. Belyaev, G. B. Semushkin, and A. N. Tsikin. 10, 921 (1968) [10, 1160 (1968)]

BELYAEVA, A. I.
Influence of Temperature on the Magnetic Anisotropy and Zeeman Effect in Erbium Ferrite Garnet. (E) A. I. Belyaeva, V. N. Pavlov, and A. V. Antonov. 10, 537 (1968) [10, 683 (1968)]

BELYAKOV, V. S.
Ion-Electron Emission: Formation and Annealing of Radiation Defects during Bombardment of Germanium by Xenon Ions. (E) I. A. Abroyan, V. S. Belyakov, and A. I. Tutov. 10, 2965 (1969) [10, 3726 (1968)]

BELYI, L. I.
Change of the Faraday Effect in Yttrium-Iron Garnet in a Strong Magnetic Field. (E) N. F. Kharchenko, L. I. Belyi, and O. P. Tutakina. 10, 2221 (1969) [10, 2819 (1968)]

BENDIASHVILI, N. S.
Quantum-Statistical Theory of Exchange Narrowing. (T) N. S. Bendiashvili, L. L. Buishvili, and M. D. Zviadadze. 10, 971 (1968) [10, 1224 (1968)]

BENESLAVSKII, S. D.
Widths of Coulomb-Center Levels in a Strong Magnetic Field. (T/E) S. D. Beneslavskii. 10, 2503 (1969) [10, 3162 (1968)]

BENGUS, V. Z.
Generation of Twinning and Full Dislocations during Expansion of Twin Layers in Calcite. (E) V. Z. Bengus, S. N. Komnik, and V. I. Startsev. 10, 253 (1968) [10, 317 (1968)]

BEREZHNOI, A. A.
Electric and Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$. (E) A. A. Berezhnoi, V. N. Bukhman, L. T. Kudinova, and I. E. Myl'nikova. 10, 192 (1968) [10, 255 (1968)]
Electrooptical Effect in $PbMg_{1/3}Nb_{2/3}O_3$ Crystals. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 365 (1968) [10, 467 (1968)]
Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{2/3}O_3$, $PbMg_{1/3}Ta_{2/3}O_3$, and $PbNi_{1/3}Nb_{2/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]

BEREZIN, A. A.
Singlet-Triplet Splitting for a Pair of F Centers in an Ionic Crystal. (T) A. A. Berezin. 10, 2280 (1069) [10, 2882 (1968)]

BERKOVSKII, B. P.
Nature of Nonequivalent Cr^{3+}-Ion Sites in $LaAlO_3$. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 10, 2759 (1969) [10, 3476 (1968)]
Electron Paramagnetic Resonance of "Parallel" Chrome Ion Pairs in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 10, 2808 (1969) [10, 3535 (1968)]
The Crystal Field in Rutiles and the EPR Spectrum of Ions with a d^1 Shell. (T) B. P. Berkovskii, M. P. Votinov, B. D. Piterkin, and D. D. Suchkov. 10, 2867 (1969) [10, 3615 (1968)]

BERSENEV, Yu. S.
Hall Effect and Electrical Resistivity of $CrTe_{1-x}Sb_x$ Alloys. (E) N. P. Grazhdankina, L. A. Matyushenko, and Yu. S. Bersenev. 10, 527 (1968) [10, 670 (1968)]

BERSHTEIN, V. A.
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Baikova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]

BERSUKER, I. B.
Hyperfine Interaction in Impurity Centers and Complexes with Degenerate Electronic Terms. (T) I. B. Bersuker and I. Ya. Ogurtsov. 10, 2894 (1969) [10, 3851 (1968)]

BERZINA, I. G.
Thermal Stability of Uranium Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]

BESSONOV, M. I.
Variation of Polymer Elasticity with Deformation and Stress Relaxation. (E) A. P. Rudakov and M. I. Bessonov. 10, 2796 (1969) [10, 3519 (1968)]

BEZIASHVILI, G. A.
Electrodynamics of a Crystal with Fluctuating Parameters. (T) F. G. Bass, G. A. Beziashvili, and Yu. S. Monin. 10, 2822 (1969) [10, 3553 (1968)]

BEZRUKOV, G. N.
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]

BEZUGLYI, P. A.
Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezuglyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2119 (1968)]

BICHURIN, M. I.
Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium-Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]

BLAGOSKLONSKAYA, L. E.
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) L. E. Blagoskionskaya, E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]

BLISTANOV, A. A.
Temperature Dependence of Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, Ya. M. Soifer, and M. P. Shaskol'skaya. 10, 1549 (1969) [10, 1968 (1968)]
Internal Friction in CdS Single Crystals. (E) A. A. Blistanov, V. V. Gerasʹkin, and L. A. Sysoev. 10, 1657 (1969) [10, 2115 (1968)]

BOBONETS, I. I.
Electron-Microscope Investigation of the Effect of the Load-Application Rate on the Structure of Polycrystalline Nickel. (E) I. A. Gindin, V. P. Lebedev, I. M. Neklyudov, and I. I. Bobonets. 10, 1738 (1969) [10, 2216 (1968)]

BOGATKO, V. V.
Emission of Light during Repolarization of Barium Titanate. (E/T) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 1640 (1969) [10, 2094 (1968)]
Microwave Absorption by Free Carriers in Barium Titanate. (E) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 2986 (1969) [10, 3746 (1968)]

BOGATOV, P. N.
Deposition of AlSb Semiconducting Films. (E) L. S. Palatnik and P. N. Bogatov. 10, 2526 (1969) [10, 3184 (1968)]

BOGDANOV, V. L.
Electric Field Gradients at Atomic Nuclei in Elastically Deformed $A^{III}B^{V}$-Type Crystals. (E/T) V. L. Bogdanov and V. V. Lemanov. 10, 159 (1968) [10, 212 (1968)]
Quadrupole Relaxation and Chemical Shift in $A^{III}B^{V}$ Crystals. (E) V. L. Bogdanov and V. V. Lemanov. 10, 223 (1968) [10, 286 (1968)]
Nuclear Magnetic Resonance in Lithium Niobate Crystals. (E) V. L. Bogdanov, V. V. Lemanov, V. P. Klyuev, and S. A. Fedulov. 10, 886 (1968) [10, 1118 (1968)]

BOGOMOLOV, V. N.
Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]

BOGORODITSKII, N. P.
Mechanism of Unipolar Direct Electrical Conductivity of Ionic Insulators. (E) N. P. Bogoroditskii, N. E. Timoshchenko, and I. D. Fridberg. 10, 1171 (1968) [10, 1480 (1968)]

BOIKO, B. T.
Electron Diffraction and Electron Microscope Study of the Structure of Films of Condensed Carbon. (E) B. T. Boiko, L. S. Palatnik, A. S. Derevyanchenko, and Yu. M. Voronin. 10, 520 (1968) [10, 656 (1968)]
Melting of Subcritically Thin Condensed Films of Indium. (E) B. T. Boiko, A. T. Pugachev, and V. M. Bratsykhin. 10, 2832 (1969) [10, 3567 (1968)]

BOIKO, V. S.
Irreversible Losses Arising during Repeated Back-and-Forth Motion of Dislocations. (E) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 10, 2342 (1969) [10, 2968 (1968)]

BOIKOVA, K. I.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Boikova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Taypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

BOIS, G. V.
Relaxational Polarization in Defect Solid Solutions of Perovskite-Type Ferroelectrics. (E) G. V. Bois and N. A. Mikhailova. 10, 484 (1968) [10, 616 (1968)]
Relaxational Polarization in Semiconducting Barium Titanate. (E) G. V. Bois and N. A. Mikhailova. 10, 495 (1968) [10, 630 (1968)]

BOKHENKOV, É. L.
Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressures. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]

BOKOV, V. A.
Magnetic Properties and Crystal Structure of the Solid Solution System Mg_2SnO_4–$MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]
Investigation of the Magnetic Properties of $RbNiF_3$ in Strong Pulsed Magnetic Fields. (E) A. T. Starovoitov, V. I. Ozhogin, and V. A. Bokov. 10, 1228 (1968) [10, 1553 (1968)]
Magnetic Properties of Certain Magnetically-Ordered Fluorides in a Strong Pulsed Magnetic Field. (E) A. T. Starovoitov, V. I. Ozhogin, V. A. Bokov, and P. P. Syrnikov. 10, 2862 (1969) [10, 3608 (1968)]

BOKSHTEIN, B. S.
Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitskii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]
Mössbauer Study of States of Iron Atoms at Nickel Grain Boundaries. (E) B. S. Bokshtein, Yu. B. Voitkovskii, A. A. Zhukhovitskii, and G. N. Pautkina. 10, 2940 (1969) [10, 3699 (1968)]

BOKSHTEIN, S. Z.
Young's Modulus of Sapphire Whiskers. (E) S. Z. Bokshtein, G. N. Zaitsev, M. P. Nazarova, and I. L. Svetlov. 10, 443 (1968) [10, 564 (1968)]

BOL'SHUTKIN, D. N.
Creep of Crystalline Methane. (E) D. N. Bol'shutkin, L. I. Borisova, and A. V. Leont'eva. 10, 1248 (1968) [10, 1572 (1968)]
Relaxation of Stresses in Ammonia Single Crystals. (E) A. I. Prokhvatilov and D. N. Bol'shutkin. 10, 966 (1968) [10, 1218 (1968)]

BOLTAKS, B. I.
Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]
Concentration Dependence of the Diffusion Coefficient of Zinc in Indium Arsenide. (E) B. I. Boltaks, S. Ya. Ksendzov, and S. I. Rembeza. 10, 2186 (1969) [10, 2778 (1968)]
Diffusion and Solubility of Silver in Indium Phosphide. (E) K. A. Arseni and B. I. Boltaks. 10, 2190 (1969) [10, 2783 (1968)]
Effect of Dislocations on the Decomposition of Solid Solutions of Elements of the Copper Group in Indium Arsenide. (E) B. I. Boltaks and S. I. Rembeza. 10, 2477 (1969) [10, 3136 (1968)]

BONCH-BRUEVICH, A. M.
Nonlinear Absorption in CdSe. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 10, 981 (1968) [10, 1235 (1968)]

BONDARENKO, O. E.
Diffusion in Silicon Nitride–Aluminum Films. (E) V. Ya. Kovarskii, I. T. Aleksanyan, O. E. Bondarenko, and B. M. Orlov. 10, 209 (1968) [10, 272 (1968)]

BONDAREVSKII, S. I.
Reactor-Irradiated Tin Compounds Studied by the Nuclear Gamma Resonance Method. (E) A. N. Murin, B. G. Lur'e, S. I. Bondarevskii, and P. P. Seregin. 10, 2207 (1969) [10, 2803 (1968)]
Mössbauer-Effect Study of Reactor Irradiation of Tin Monoxide. (E) S. I. Bondarevskii and P. P. Seregin. 10, 2736 (1969) [10, 3454 (1968)]

BORISOV, V. L.
Temperature Dependence of the Secondary Emission of Magnesium Oxide Containing Excess Magnesium. (E) V. L. Borisov and N. M. Gnuchev. 10, 1752 (1969) [10, 2230 (1968)]

BORISOVA, L. I.
Creep of Crystalline Methane. (E) D. N. Bol'shutkin, L. I. Borisova, and A. V. Leont'eva. 10, 1248 (1968) [10, 1572 (1968)]

BOROVIK, A. E.
Excitation of Nonlinear Spin Waves in Ferromagnets and Antiferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 10, 1275 (1968) [10, 1609 (1968)]

BOVA, V. F.
Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$, a Ferroelectric with an Indistinct Phase Transition. (E) N. P. Khuchua, V. F. Bova, and I. E. Myl'nikova. 10, 194 (1968) [10, 257 (1968)]

BOYARSKII, L. A.
The Influence of Ferromagnetic Impurities on the Susceptibility of Gadolinium near the Curie Point. (E) L. A. Boyarskii and M. A. Starikov. 10, 1143 (1968) [10, 1442 (1968)]

BRACH, B. Ya.
Magnetic Susceptibility of Solid Solutions of Iron Suboxide in Magnesium Oxide. (E/T) S. M. Ariya, B. Ya. Brach, and N. V. Kheifets. 10, 2112 (1969) [10, 2683 (1968)]

BRANDT, N. B.
A New Method for Determining the Dependence of the Carrier Density on Pressure in Semimetals. (T/E) N. B. Brandt, N. Ya. Minina, and Yu. A. Pospelov. 10, 1011 (1968) [10, 1268 (1968)]

BRATSYKIN, V. M.
Melting of Subcritically Thin Condensed Films of Indium. (E) B. T. Boiko, A. T. Pugachev, and V. M. Bratsykhin. 10, 2832 (1969) [10, 3567 (1968)]

BRESTKIN, Yu. V.
Nature of the Central Spot on H_V Diffraction Patterns of Spherulites. (T) Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'. 10, 2471 (1969) [10, 3130 (1968)]

BRODSKII, I. A.
Determination of Certain Dynamic Characteristics of Cubic and Orthorhombic $MClO_4$-Type Crystal Lattice from Data on Infrared Spectra. (E/T) E. K. Galanov and I. A. Brodskii. 10, 2678 (1969) [10, 3392 (1968)]

BROGREN, G.
Determination of the Effective Width of the "Spectral Window" of an X-Ray Crystal Spectrometer. (E) G. Brogren, O. Efimov, and E. Persson. 10, 2138 (1969) [10, 2716 (1968)]

BROIDE, E. L.
Pressure Dependence of the Electron Effective Mass in InSb. (E) M. M. Aksel'rod, K. M. Demchuk, I. M. Tsidil'kovskii, E. L. Broide, and K. P. Rodionov. 10, 1733 (1969) [10, 2211 (1968)]

BRYKSIN, V. V.
The Influence of Small Polarons on Lattice Vibrations. (T) V. V. Bryksin and Yu. A. Firsov. 10, 1083 (1968) [10, 1364 (1968)]
The Relaxation Time for Small-Radius Polarons. (T) V. V. Bryksin and Yu. A. Firsov. 10, 2049 (1969) [10, 2600 (1968)]

BRYTOV, I. A.
X-Ray Spectroscopic Study of Titanium Monoxide in the Homogeneous Region and of Titanium Nitride. (E) I. A. Brytov, M. A. Rumsh, and A. S. Parobets. 10, 621 (1968) [10, 794 (1968)]

BRYUKHATOV, N. L.
Angular Dependence of the Induced Magnetic Anisotropy Constant of Fe–Ni–Co Ferrites. (E) N. L. Bryukhatov, N. L. Pakhomova, and V. A. Kozlov. 10, 1477 (1968) [10, 1879 (1968)]

BUBLIK, V. T.
Precision Measurements of Lattice Periods of Strongly Doped Germanium and Silicon. (E) V. T. Bublik, S. S. Gorelik, and A. N. Dubrovina. 10, 2247 (1969) [10, 2846 (1968)]

BUISHVILI, L. L.
Quantum-Statistical Theory of the Transverse Overhauser Effect. (T) L. L. Buishvili and N. P. Giorgadze. 10, 937 (1968) [10, 1181 (1968)]
Quantum-Statistical Theory of Exchange Narrowing. (T) N. S. Bendiashvili, L. L. Buishvili, and M. D. Zviadadze. 10, 971 (1968) [10, 1224 (1968)]
Effect of NMR Saturation on EPR in the Case of Homogeneous Broadening. (T) L. L. Buishvili and M. D. Zviadadze. 10, 1885 (1969) [10, 2397 (1968)]
Influence of the Exchange Interaction between Nuclear Spins on the Dynamical Polarization of Nuclei. (T) L. L. Buishvili and M. D. Zviadadze. 10, 2015 (1969) [10, 2553 (1968)]

BUKHMAN, V. N.
Electric and Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$. (E) A. A. Berezhnoi, V. N. Bukhman, L. T. Kudinova, and I. E. Myl'nikova. 10, 192 (1968) [10, 255 (1968)]

BUNINA, L. K.
Dielectric and Elastic Properties of Single Crystals of $BaTiO_3$–$PbTiO_3$ Solid Solutions. (E/T) L. K. Bunina and A. Yu. Kudzin. 10, 2496 (1969) [10, 3156 (1968)]

BURAKHOVICH, T. A.
Dependence of the Isomeric Shift of Sn^{119} Nuclei in SnX_4 Compounds (X = Cl, Br, I, H, Li, Na) on the Atomic Radius of Element X. (E) V. V. Chekin, A. P. Vinnikov, and I. A. Burakhovich. 10, 225 (1968) [10, 288 (1968)]

BURDIN, Yu. N.
Magnetostatic Oscillation Spectrum of an Antiferromagnetic Spheroid with an Easy Eaxis of Anisotropy. (T) Yu. M. Yakovlev and Yu. N. Burdin. 10, 1284 (1968) [10, 1622 (1968)]

BURKOV, V. D.
Parametric Interaction of Ultrasonic and Magnetic Oscillations in a Ferromagnet. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 475 (1968) [10, 605 (1968)]
Peculiarities of Magnetoacoustic Resonance in Ferrites. (E) V. D. Bukov, V. D. Vashkovskii, and V. N. Kil'dishev. 10, 2975 (1969) [10, 3735 (1968)]

BURSIAN, É. V.
Changes in the Curvature of a Ferroelectric Film Due to Polarization. (E) É. V. Bursian and O. I. Zaikovskii. 10, 1121 (1968) [10, 1413 (1968)]

BUTIKOV, E. I.
Magnetic Moments of Shallow Acceptor Centers in Semiconductors Having Degenerate Bands. (T) E. I. Butikov. 10, 2657 (1969) [10, 3364 (1968)]

BUTUZOV, V. P.
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]

BUTSKO, N. I.
Properties of Acicular Single Crystals of Antimony Selenide. (E) N. I. Butsko and A. P. Oksenyuk. 10, 1759 (1969) [10, 2237 (1968)]

BUTUZOV, V. P.
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]

BYKOV, V. N.
Isomeric Shift of Sn^{119} Nuclei in Cu–Sn Alloys. (E) V. N. Bykov, L. M. Krizhanskii, B. I. Rogozev, I. I. Rudnev, and A. E. Fedorovskii. 10, 2267 (1969) [10, 2869 (1968)]

CHAIKOVSKII, É. F.
Dislocation Density Dependence of the Anomalous Transmission of X Rays in Potassium Chloride Single Crystals. (E) É. F. Chaikovskii and L. B. Zagarii. 10, 2035 (1969) [10, 2577 (1968)]

CHALIKYAN, G. A.
Franz–Keldysh Effect in Gallium Phosphide. (E) G. A. Chalikyan, V. K. Subashiev, and P. Kishan. 10, 348 (1968) [10, 442 (1968)]
Exciton Absorption Profile of Gallium Phosphide. (T/E) V. K. Subashiev and G. A. Chalikyan. 10, 1067 (1968) [10, 1343 (1968)]

CHECHETENKO, V. V.
Investigation of the Influence of Proton Bombardment on the Electrical Resistance of Thin Silver Films. (E) V. V. Chechetenko, L. P. Tishchenko, and Ya. M. Fogel'. 10, 502 (1968) [10, 638 (1968)]

CHEKIN, V. V.
Dependence of the Isomeric Shift of Sn^{119} Nuclei in SnX_4 Compounds (X = Cl, Br, I, H, Li, Na) on the Atomic Radius of Element X. (E) V. V. Chekin, A. P. Vinnikov, and I. A. Burakhovich. 10, 225 (1968) [10, 288 (1968)]
The Two Charged States of Tin Impurity in Ag, Au, and Cu. (E/T) V. V. Chekin and A. P. Vinnikov. 10, 2770 (1969) [10, 3486 (1968)]

CHELISHCHEV, N. N.
Excitation Time of Spin Waves in First- and Second-Order Nonlinear Processes. (E) V. I. Churkin, Yu. R. Shil'nikov, and N. N. Chelishchev. 10, 1474 (1968) [10, 1876 (1968)]

CHELNOKOV, V. A.
Some Properties of Amplitude-Dependent Internal Friction in Aluminum at High Deformation Amplitudes. (E) V. A. Stepanov and V. A. Chelnokov. 10, 173 (1968) [10, 230 (1968)]

CHEMERESYUK, G. G.
Saturation Mechanism of the Photocurrent and the Occurrence of Relaxation Vibration in CdSe Single Crystals. (E/T) V. V. Serdyuk, G. G. Chemeresyuk, and I. A. Starostin. 10, 2201 (1969) [10, 2797 (1968)]

CHENYAVSKII, F. N.
Laser Radiation-Induced Breakdown Processes in Polymers at the Load Limit. (E) N. P. Novikov, S. S. Saluen'ya, F. N. Chernyavskii, and Yu. I. Yudin. 10, 2990 (1969) [10, 3751 (1968)]

CHEPARIN, V. P.
Anisotropy of Magnetization of the Hexagonal Ferrite $BaCo_2 \cdot TiFe_{16}O_{27}$. (E) T. M. Perekalina, A. D. Shcharova, and V. P. Cheparin. 10, 2460 (1969) [10, 3119 (1968)]

CHEPURNYKH, G. K.
Ground State of an Antiferromagnet in a Magnetic Field of Arbitrary Direction. (T) G. K. Chepurnykh. 10, 1517 (1968) [10, 1917 (1968)]

CHEPUROVA, E. E.
Theory of Domain Structure of "Supercritical" Permalloy Films. (T) G. S. Krinchik, E. E. Chepurova, and A. N. Verkhozin. 10, 190 (1968) [10, 253 (1968)]

CHERNETS, A. N.
Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]
Preparation and Properties of Thin Films of ZnO. (E) N. L. Kenigsberg and A. N. Chernets. 10, 2235 (1969) [10, 2834 (1968)]

CHERNOPLAKOV, N. A.
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, and M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]

CHERNOV, V. M.
Surmounting of the Elastic Field of Point Defects during the Slip of Dislocations. (T) V. M. Chernov and V. L. Indenbom. 10, 2632 (1969) [10, 3331 (1968)]

CHERNYAK, G. E.
Angular Dependence of the Cyclotron-Resonance for Hot Carriers in Germanium. (E/T) D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak. 10, 406 (1968) [10, 518 (1968)]

CHERNYAKOVA, L. E.
Moiré Patterns Due to Misfit Dislocations in Double-Layer Films of Gold and a Gold-Copper Alloy. (E/T) V. M. Kosevich, L. S. Palatnik, and L. E. Chernyakova. 10, 1644 (1969) [10, 2099 (1968)]

CHERTKOV, A. A.
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]

CHERYUKANOVA, L. D.
Formation of Dislocations in Germanium during Diffusion of Arsenic. (E) I. M. Sukhodreva and L. D. Cheryukanova. 10, 737 (1968) [10, 932 (1968)]

CHINIK, B. I.
Effects of Optical Phonons on the Shape of the Wannier-Mott Exciton Absorption Band. (T) S. A. Moskalenko, M. I. Shmigelyuk, and B. I. Chinik. 10, 279 (1968) [10, 351 (1968)]

CHIRKINA, L. A.
Internal Friction Due to Stress Relaxation at Twin Boundaries. (E) L. A. Chirkina. 10, 735 (1968) [10, 930 (1968)]
Twinning and Brittleness of Silicon Iron. (E) I. A. Gindin and L. A. Chirkina. 10, 1989 (1969) [10, 2529 (1968)]

CHIRKOV, V. A.
Cross Sections for the Raman Scattering of Light in GaP and CdS Crystals. (E) V. S. Ryazanov, V. S. Gorelik, G. V. Peregudov, M. M. Sushchinskii, and V. A. Chirkov. 10, 1508 (1968) [10, 1909 (1968)]

CHKALOVA, V. V.
Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]

CHUIKOV, B. A.
Mass-Spectrometric Investigation of the Interaction of Oxygen with (110) and (100) Faces of a Tungsten Single Crystal. (E) Yu. G. Ptushinskii and B. A. Chuikov. 10, 565 (1968) [10, 722 (1968)]

CHUPIS, I. E.
Phenomenological Theory of a Ferroelectric Magnet. (T) V. G. Bar'yakhtar and I. E. Chupis. 10, 2818 (1969) [10, 3547 (1968)]

CHURKIN, V. I.
Excitation Time of Spin Waves in First- and Second-Order Nonlinear Processes. (E) V. I. Churkin, Yu. R. Shil'nikov, and N. N. Chelishchev. 10, 1474 (1968) [10, 1876 (1968)]

DANILEIKO, Yu. K.
Optical Homogeneity of Ruby Crystals and Its Relation to the Radiation Divergence of Lasers. (E) Yu. K. Danileiko, A. A. Manenkov, A. M. Prokhorov, and V. Ya. Khaimov-Mal'kov. 10, 2154 (1969) [10, 2738 (1968)]

DAN'SHIN, N. K.
Excitation of Field Splashes within Metals Via Electron Trajectory Chains in Surface-Normal Magnetic Fields. (T/E) V. P. Naberzhnykh and N. K. Dan'shin. 10, 1422 (1968) [10, 1807 (1968)]

DARINSKII, B. M.
Theory of the High-Temperature Background of Internal Friction. (T/E) B. M. Darinskii, S. K. Turkov, and Yu. A. Fedorov. 10, 1469 (1968) [10, 1869 (1968)]

DAUTOV, R. A.
Relaxation of F^{19} Nuclei through Paramagnetic Impurities from the Iron and Rare-Earth Groups. (E) A. G. Akhmedov and R. A. Dautov. 10, 700 (1968) [10, 894 (1968)]
Relation between the Magnetic Dipole and Electric Quadrupole Interactions of the Nuclei in Metallic Aluminum. (E) K. S. Salkin, O. A. Andreeva, Yu. E. Popov, F. I. Bashirov, and R. A. Dautov. 10, 2558 (1969) [10, 3233 (1968)]

DAVYDOV, A. B.
Double Refraction and Dichroism of UHF Waves Due to Hot Electrons in n-Ge and n-Si. (E/T) A. B. Davydov and R. V. Pomortsev. 10, 870 (1968) [10, 1098 (1968)]
Electrical Conductivity of Ferrites in High Electric Fields at Superhigh Frequency. (E) S. A. Ismailov, A. B. Davydov, and A. A. Samokhvalov. 10, 2505 (1969) [10, 3164 (1968)]

DAVYDOV, L. N.
Raman Scattering of Hypersound in Ferromagnets with High Magnetostriction. (T) I. A. Akhiezer and L. N. Davydov. 10, 2288 (1969) [10, 2890 (1968)]

DEDEGKAEV, T. T.
Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

DEDUKH, L. M.
The Dislocation Structure and Mechanical Properties of Aluminum Antimonide Single Crystals. (E) V. I. Nikitenko, V. N. Vertoprakhov, L. M. Dedukh, and V. P. Zinov'eva. 10, 1435 (1968) [10, 1824 (1968)]

DEIGEN, M. F.
Temperature Dependence of the Hyperfine Interaction Constants of F Centers in LiF. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 996 (1968) [10, 1250 (1968)]
Electron-Nuclear Double Resonance of A Centers in Mixed KCl + LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]
Quadrupole and Second-Order Effects in the Electron-Nuclear-Double-Resonance Spectra of F-Centers in KCl Due to Interactions with a K^{41} Isotope. (E/T) N. P. Baran, M. F. Deigen, V. Ya. Zevin, and M. A. Ruban. 10, 2640 (1969) [10, 3342 (1968)]

DEMCHUK, K. M.
Pressure Dependence of the Electron Effective Mass in InSb. (E) M. M. Aksel'rod, K. M. Demchuk, I. M. Tsidil'kovskii, E. L. Broide, and K. P. Rodionov. 10, 1733 (1969) [10, 2211 (1968)]

DEMIKHOVSKII, V. Ya.
Sound Dispersion in Superconducting Semiconductors. (T) V. V. Vas'kin and V. Ya. Demikhovskii. 10, 330 (1968) [10, 419 (1968)]

DENISOV, Yu. P.
The Possibility of Superfluidity in Semimetals during the Dielectric Transition. (T) Yu. P. Denisov and T. T. Mnatsakanov. 10, 1465 (1968) [10, 1863 (1968)]

DENKS, V. P.
Influence of an Electric Field on Monomolecular and Dimolecular Recombination in Luminescent Ionic Crystals. (E) V. P. Denks and V. I. Leiman. 10, 1426 (1968) [10, 1812 (1968)]

DEREVYANCHENKO, A. S.
Electron Diffraction and Electron Microscope Study of the Structure of Films of Condensed Carbon. (E) B. T. Boiko, L. S. Palatnik, A. S. Derevyanchenko, and Yu. M. Voronin. 10, 520 (1968). [10, 656 (1968)]

DERYAGIN, A. V.
Nature of the High-Coercivity State in Alloys of the Mn–Ga System. (E) Ya. S. Shur, G. S. Kandaurova, and A. V. Deryagin. 10, 1923 (1969) [10, 2449 (1968)]
Magnetic Properties of Mn–Ga Alloy Powders. (E) A. V. Deryagin, G. S. Kandaurova, and Ya. S. Shur. 10, 2454 (1969) [10, 3113 (1968)]

DEVYATKOVA, E. D.
Temperature Dependence of Forbidden-Band Width in $PbTe_xSe_{1-x}$ Solid Solutions. (E) E. D. Devyatkova and V. A. Saakyan. 10, 1239 (1969) [10, 1563 (1968)]

DIKSTEIN, I. E.
Anisotropy of the Self-Modulation of Nonlinear Ferromagnetic Resonance. (E) I. E. Dikshtein, Ya. A. Monosov, and V. V. Surin. 10, 1506 (1968) [10, 1907 (1968)]

DINERSTEIN, V. B.
Effect of the Multipole Moments of Molecules in a Molecular Crystal on the Hyperfine Structure of Trapped Group I Atoms. (T) V. B. Dinershtein. 10, 1624 (1968) [10, 2072 (1968)]

DINYAEVA, N. S.
Correlated Chains of Atomic Collisions in [100] Directions in Cubic Face-Centered Crystals. (T) N. S. Dinyaeva, Yu. V. Martynenko, and Yu. A. Ryzhov. 10, 2271 (1969) [10, 2873 (1968)]

DISTLER, G. I.
Directional Crystallization of Cadmium Sulfide by a Long-Range Mechanism Using Cathode Sputtering. (E) Yu. M. Gerasimov, G. I. Distler, V. M. Efremenkova, and V. E. Yurasova. 10, 207 (1968) [10, 270 (1968)]
Visualization of Microbreakdowns on Cleaved Surfaces of Quenched NaCl Crystals. (E) Yu. M. Gerastimov, V. G. Govorkov, and G. I. Distler. 10, 2456 (1969) [10, 3115 (1968)]
Visualization of Color Centers in Alkali-Halide Crystals. (E) G. I. Distler, V. N. Lebedeva, and V. V. Moskvin. 10, 2774 (1969) [10, 3489 (1968)]

DMITRIEVA, T. V.
The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]

DOBROVINSKAYA, E. R.
Magnetic Resonance of I^{127} Nuclei in NaI Crystals. (E) Yu. A. Grinchenko, E. R. Dobrovinskaya, and V. L. Timan. 10, 341 (1968) [10, 434 (1968)]

DOBROVOL'SKAYA, T. L.
Carrier Photogeneration and Luminescence Processes in Pyrene. (E) A. A. Avdeenko, T. L. Dobrovol'skaya, and Yu. V. Naboikin. 10, 1254 (1968) [10, 1579 (1968)]

DOBRYAKOVA, V. I.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

DOBRZHANSKII, G. F.
The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]

DOLGOV, A. S.
Collision of an Atom with a Solid Film. (T) A. S. Dolgov and N. A. Khizhnyak. 10, 2083 (1969) [10, 2647 (1968)]

DONSKAYA, I. S.
Formation of Spin-Echo Signals under the Combined Action of Local Electric and Magnetic Fields. (T) I. S. Donskaya and A. R. Kessel'. 10, 694 (1968) [10, 885 (1968)]

DRABKIN, G. M.
Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]

DRABKIN, I. A.
Absorption Spectrum of MnO Single Crystals. (E) R. N. Iskenderov, I. A. Drabkin, L. T. Emel'yanova, and Ya. M. Ksendzov. 10, 2031 (1969) [10, 2573 (1968)]
Photoconductivity of Single Crystals of MnO. (E/T) I. A. Drabkin, L. T. Emel'yanova, R. N. Iskenderov, and Ya. M. Ksendzov. 10, 2428 (1969) [10, 3082 (1968)]

DRANOVA, Zh. I.
Stacking Faults in Tungsten. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. 10, 799 (1968) [10, 1012 (1968)]

DROKIN, A. I.
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. (E) G. A. Petrakovskii, I. K. Pukhov, V. N. Seleznev, and A. I. Drokin. 10, 2528 (1969) [10, 3186 (1968)]

DUBENSKII, K. K.
Structure of Zinc Sulfide Single Crystals Grown from the Melt under Pressure. (E) G. V. Anan'eva, K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1417 (1968) [10, 1800 (1968)]

DUBNOVA, G. N.
Dislocation Bowing and the Frank-Read Source. (T) G. N. Dubnova, V. L. Indenbom, and A. A. Shtol'berg. 10, 1387 (1968) [10, 1760 (1968)]

DUBROVINA, A. N.
Precision Measurements of Lattice Periods of Strongly Doped Germanium and Silicon. (E) V. T. Bublik, S. S. Gorelik, and A. N. Dubrovina. 10, 2247 (1969) [10, 2846 (1968)]

DUDNIK, E. F.
Partial Polarization Reversal Processes in $BaTiO_3$ Single Crystals Subjected to Square Bipolar Pulses. (E) E. V. Sinyakov and E. F. Dudnik. 10, 219 (1968) [10, 282 (1968)]

DUKHOVSKAYA, E. L.
Geometry of Exchange Bonds in Bismuth–Calcium–Vanadium–Iron Garnet. (E) E. L. Dukhovskaya and Yu. G. Saksonov. 10, 2613 (1969) [10, 3308 (1968)]

D'YACHENKO, Ya. V.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

D'YAKONOV, M. I.
Stimulation of Exciton Lines in a Strong Magnetic Field. (T) M. I. D'yakonov, D. L. Mitchell, and A. L. Éfros. 10, 2021 (1969) [10, 2561 (1968)]

DYKMAN, I. M.
The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^{V}$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]

DZHABAKHISHVILI, L. Ya.
EPR Spectrum and Spin-Lattice Relaxation in Irradiated Polyethylene. (E) L. Ya. Dzhabakhishvili, G. D. Ketiladze, and T. I. Sanadze. 10, 2954 (1969) [10, 3715 (1968)]

DZHAFAROV, É. O.
Thermoelectric Power and Electrical Conductivity of Titanium and Zirconium Monocarbides in the Temperature Range 20–2000°C. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, and G. M. Klimashin. 10, 124 (1968) [10, 168 (1968)]

DZHURAKOLOV, Kh.
Potential and Kinetic Electron Emission from the (110) and (111) Faces of a Mo Single Crystal. (E) U. A. Arifov, R. R. Rakhimov, and Kh. Dzhurakulov. 10, 925 (1968) [10, 1166 (1968)]

ÉDEL'MAN, F. L.
The Correlation of the Electrical and Mechanical Properties of Irradiated Germanium Crystals. (E) V. V. Khainovskaya, F. L. Édel'man, and L. S. Smirnov. 10, 211 (1968) [10, 274 (1968)]

Low-Frequency Damping in Germanium. (E) L. N. Aleksandrov, Yu. N. Golobokov, V. N. Orlov, and F. L. Édel'man. 10, 2269 (1969) [10, 2871 (1968)]

EFIMOV, O.
Integrated Characteristics of the Anomalous Transmission of X Rays in Germanium for the Wavelength Range 0.4970–2.2896 Å. (E/T) O. Efimov and E. Persson. 10, 1756 (1969) [10, 2234 (1968)]

Determination of the Effective Width of "Spectral Window" of an X-Ray Crystal Spectrometer. (E) G. Brogren, O. Efimov, and E. Persson. 10, 2138 (1969) [10, 2716 (1968)]

EFIMOVA, N. N.
Magnetic Properties of Indium-Substituted Cobalt Ferroxplana Ferrite. (E) N. N. Efimova, Yu. A. Mamaiui, and A. A. Murakhovskii. 10, 1271 (1968) [10, 1604 (1968)]

EFREMENKOVA, V. M.
Directional Crystallization of Cadmium Sulfide by a Long-Range Mechanism Using Cathode Sputtering. (E) Yu. M. Gerasimov, G. I. Distler, V. M. Efremenkova, and V. E. Yurasova. 10, 207 (1968) [10, 270 (1968)]

EFREMOV, G. A.
Lattice Model Estimates of the Conditions of Ferroelectric Transition in Perovskite-Type Crystals. (T) G. A. Efremov and S. N. Kolkov. 10, 2732 (1969) [10, 3449 (1968)]

ÉFROS, A. L.
Stimulation of Exciton Lines in a Strong Magnetic Field. (T) M. I. D'yakonov, D. L. Mitchell, and A. L. Éfros. 10, 2021 (1969) [10, 2561 (1968)]

Theory of Transport Phenomena in Semiconductors with Low Mobility. (T) A. L. Éfros. 10, 2245 (1969) [10, 2844 (1968)]

EGOROV, E. A.
Dependence of the Elastic Properties of Oriented Polymers on the Flexibility of Macromolecules (NMR Results). (E) E. A. Egorov and V. V. Zhizhenkov. 10, 665 (1968) [10, 848 (1968)]

ÉIDEL'MAN, L. G.
Origin of Dislocation Subboundaries in NaCl Single Crystals Grown from the Melt. (E/T) V. V. Antonova and L. G. Éidel'man. 10, 2599 (1969) [10, 3288 (1968)]

ÉLANGO, M. A.
Exciton Mechanism of Generation of F Centers in Defectless Parts of Ionic Crystals. (E/T) Ch. B. Lushchik, I. K. Vitol, and M. A. Élango. 10, 2166 (1969) [10, 2753 (1968)]

Temperature Dependence and Mechanisms of Radiative Creation of Electronic Color Centers in KCl and KCl–Ag Crystals. (E) S. M. Muradov and M. A. Élango. 10, 2548 (1969) [10, 3218 (1968)]

The Formation of F Centers during the Decay of X-Ray Excited States in Ionic Crystals. (T/E) M. A. Élango. 10, 2718 (1969) [10, 3434 (1968)]

EMEL'YANOVA, L. T.
Absorption Spectrum of MnO Single Crystals. (E) R. N. Iskenderov, I. A. Drabkin, L. T. Emel'yanova, and Ya. M. Ksendzov. 10, 2031 (1969) [10, 2573 (1968)]

Photoconductivity of Single Crystals of MnO. (E/T) I. A. Drabkin, L. T. Emel'yanova, R. N. Iskenderov, and Ya. M. Ksendzov. 10, 2428 (1969) [10, 3082 (1968)]

ÉPSHTEIN, É. M.
Propagation of Ultrasound in a Semiconductor in the Presence of a High-Frequency Electric Field. (T) É. M. Épshtein. 10, 2325 (1969) [10, 2945 (1968)]

EREMENKO, V. V.
The Contribution of High-Frequency Optical Transitions to the Faraday Effect in the Antiferromagnetic MnF_2. (E/T) N. F. Kharchenko and V. V. Eremenko. 10, 1112 (1968) [10, 1402 (1968)]

ERMOLOVICH, I. B.
Nature of Infrared Luminescence ($\lambda_m = 1.2\ \mu$) in CdSe Single Crystals and Its Relationship to Photoconductivity. (E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 1394 (1968) [10, 1769 (1968)]

Mechanisms for Orange, Red, and Infrared Photoluminescence in CdS Single Crystals and Parameters of the Corresponding Luminescence Centers. (T/E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 2069 (1969) [10, 2628 (1968)]

ERSHOV, B. V.
Two-Photon Absorption Mechanism in $CaF_2:Ho^{3+}$ Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1968) [10, 1645 (1968)]

EVLANOVA, N. F.
Nuclear Magnetic Resonance in Lithium Niobate. (E) V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, L. N. Rashkovich, and N. F. Evlanova. 10, 594 (1968) [10, 759 (1968)]

EVSEEV, Z. Ya.
The Optical Absorption by F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 947 (1968) [10, 1193 (1968)]

Carrier Mobility in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 1325 (1968) [10, 1678 (1968)]

EVSTIFEEV, Yu. N.
Thermal Destruction of F Centers and Dielectric Losses in NaCl and KCl Crystals. (E) Sh. I. Ismailov, Yu. N. Evstifeev, and Yu. L. Lukantsevev. 10, 1322 (1968) [10, 1674 (1968)]

FAIN, V. M.
Theory of Induced Second-Order Raman Scattering by Spin Waves in an Antiferromagnet. (T) V. M. Genkin, G. M. Genkin, and V. M. Fain. 10, 47 (1968) [10, 66 (1968)]

FALIN, M. L.
Electron Nuclear Double Resonance of Yb^{3+} in CaF_2. (E) Yu. F. Mitrofanov, Yu. E. Pol'skii, and M. L. Falin. 10, 2923 (1969) [10, 3682 (1968)]

FAL'KO, I. I.
Spin-Lattice Relaxation in M_3X Superconducting Compounds with Two Overlapping Energy Bands. (T) I. I. Fal'ko and A. D. Serdyuk. 10, 541 (1968) [10, 688 (1968)]

FARBSHTEIN, I. I.
Galvanomagnetic Properties of Tellurium at Very Low Temperatures. (E) V. A. Noskin, I. I. Farbshtein, and S. S. Shalyt. 10, 881 (1968) [10, 1112 (1968)]
Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]

FECHINA, S. A.
A Mechanism for the Broadening of the Line Width 2ΔH of Polycrystalline Ferrite Spinels. (E) L. I. Gromova, L. I. Koshkin, and S. A. Fechina. 10, 1965 (1969) [10, 2505 (1968)]

FEDORINOV, V. P.
Investigation of the Adsorption of Potassium Ions on the Surface of Molybdenum. (E) N. G. Ban'kovskii, E. M. Stefanovskaya, and V. P. Fedorinov. 10, 113 (1968) [10, 153 (1968)]

FEDOROV, V. B.
Two-Photon Absorption Mechanism in $CaF_2:Ho^{3+}$ Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1969) [10, 1645 (1968)]

FEDOROV, V. I.
The Thermal Conductivity of Indium Telluride. (E) V. I. Fedorov and V. I. Machuev. 10, 1786 (1969) [10, 2263 (1968)]

FEDOROV, Yu. A.
Theory of the High-Temperature Background of Internal Friction. (T/E) B. M. Darinskii, S. K. Turkov, and Yu. A. Fedorov. 10, 1469 (1968) [10, 1869 (1968)]

FEDOROVICH, Yu. V.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

FEDOROVSKII, A. E.
Isomeric Shift of Sn^{119} Nuclei in Cu–Sn Alloys. (E) V. N. Bykov, L. M. Krizhanskii, B. I. Rogozev, I. I. Rudnev, and A. E. Fedorovskii. 10, 2267 (1969) [10, 2869 (1968)]

FEDORUS, A. G.
Investigation of the Structure and Work Function of Platinum Films on Tungsten and of Adsorption of Cesium on Such Films. (E) A. G. Naumovets and A. G. Fedorus. 10, 627 (1968) [10, 801 (1968)]
Structure of Platinum Films on a (110) Faces of a Tungsten Crystal. (E) A. G. Naumovets and A. G. Fedorus. 10, 2029 (1969) [10, 2570 (1968)]

FEDOSEEVA, I. G.
The Nonlinear Theory of Ferromagnetic Resonance. (T) L. V. Kitaev and I. G. Fedoseeva. 10, 951 (1968) [10, 1198 (1968)]

FEDOTOV, S. P.
Paramagnetic Resonance in Fe-Doped Gallium Arsenide. (E) V. K. Bazhenov, V. A. Presnov, and S. P. Fedotov. 10, 205 (1968) [10, 268 (1968)]

FEDULOV, S. A.
Nuclear Magnetic Resonance in Lithium Niobate Crystals. (E) V. L. Bogdanov, V. V. Lemanov, V. P. Klyuev, and S. A. Fedulov. 10, 886 (1968) [10, 1118 (1968)]

FEL'DMAN, É. P.
Influence of Dislocations on Electrical Conductivity and Electromagnetic Effects in Metals. (T) É. A. Kaner and É. P. Fel'dman. 10, 2401 (1969) [10, 3046 (1968)]

FEOFILOV, P. P.
Magnetooptical Rotation in Cubic Crystals Containing Anisotropic Impurity Centers. (T/E) L. A. Alekseeva and P. P. Feofilov. 10, 1397 (1968) [10, 1773 (1968)]

FESENKO, E. P.
Some Possibilities for Investigating the Structure of Electronic Spectra Using the Quantum Size Effect. (T) V. N. Lutskii and E. P. Fesenko. 10, 2902 (1969) [10, 3661 (1968)]

FETISOV, E. P.
Excitation of Electromagnetic Waves in a Solid-State Plasma Having a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze and E. P. Fetisov. 10, 911 (1968) [10, 1147 (1968)]

FILATOV, O. N.
Dependence of the Absorption Edge of Films of Indium Antimonide on Thickness. (E) O. N. Filatov and L. A. Karpovich. 10, 2284 (1969) [10, 2886 (1968)]

FILIMONOV, A. A.
Generation of the Second Harmonic of Ruby Laser Radiation in Some Crystals. (E) A. S. Sonin, A. A. Filimonov, and V. S. Suvorov. 10, 1481 (1968) [10, 1883 (1968)]

FINKEL', V. A.
Study of the Deformation of Polycrystalline Beryllium during Compression. (E) V. A. Finkel' and I. I. Papirov. 10, 2782 (1969) [10, 3497 (1968)]

FIRSOV, Yu. A.
The Influence of Small Polarons on Lattice Vibrations. (T) V. V. Bryksin and Yu. A. Firsov. 10, 1083 (1968) [10, 1364 (1968)]
Form of the Absorption Curve for Interaction of Light with Small Polarons. (T) Yu. A. Firsov. 10, 1537 (1968) [10, 1950 (1968)]
The Relaxation Time for Small-Radius Polarons. (T) V. V. Bryksin and Yu. A. Firsov. 10, 2049 (1969) [10, 2600 (1968)]
Hall Effect in Polaron Semiconductors. (T) Yu. A. Firsov. 10, 2387 (1969) [10, 3027 (1968)]

FISTUL', V. I.
Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide. (E) V. M. Stuchebnikov, V. I. Tikhonov, and V. I. Fistul'. 10, 423 (1968) [10, 539 (1968)]
Observation of Spatially Phased and Out-of-Phase Oscillations of an Electron-Hole Plasma in a Semiconductor. (E) M. I. Iglitsyn, É. G. Pel', L. Ya. Pervova, and V. I. Fistul'. 10, 2730 (1969) [10, 3446 (1968)]

FLEROV, V. I.
Kinetics of the Electromechanical Effect. (E) S. A. Varchenya, I. P. Spalvin', G. P. Upit, and V. I. Flerov. 10, 1717 (1969) [10, 2194 (1968)].

FLEROVA, S. A.
Relaxation Processes in $BaTiO_3$ Single Crystals Subjected to Unidirectional Mechanical Pressure Pulses. (E) E. V. Sinyakov, S. A. Flerova, and G. V. Barinov. 10, 415 (1968) [10, 529 (1968)]

FOGEL', A. A.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Bolkova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Taypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

FOGEL', V. A.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

FOGEL', Ya. M.
Investigation of the Influence of Proton Bombardment on the Electrical Resistance of Thin Silver Films. (E) V. V. Chechetenko, L. P. Tishchenko, and Ya. M. Fogel'. 10, 502 (1968) [10, 638 (1968)]
Oxidation of Tungsten at Room Temperature. (E) V. F. Rybalko, V. Ya. Kolot, and Ya. M. Fogel'. 10, 2518 (1969) [10, 3176 (1968)]
Use of Secondary Ionic Emission to Study Bulk Processes in Solids. (T/E) V. F. Kozlov, V. M. Pistryak, and Ya. M. Fogel'. 10, 2952 (1969) [10, 3713 (1968)]

FOGEL'SON, M. S.
Aspects of Electron Paramagnetic Resonance in n-Type InSb. (E) E. M. Gershenzon, N. M. Pevin, and M. S. Fogel'son. 10, 2278 (1969) [10, 2880 (1968)]

FOLIN, K. G.
Effect of Pumping Pulses on Birefringence of Neodymium Glass. (E) V. A. Gridin and K. G. Folin. 10, 749 (1968) [10, 946 (1968)]

FOMICHEV, V. A.
Investigation of the Energy Structure of Al_2O_3 and AlN by Ultra-Soft X-Ray Spectroscopy. (E) V. A. Fomichev. 10, 597 (1968) [10, 763 (1968)]

Investigation of the Energy Structure of Silicon Carbide and Silicon Nitride by Ultrasoft X-Ray Spectroscopy. (E) I. I. Zhukova, V. A. Fomichev, A. S. Vinogradov, and T. M. Zimkina. 10, 1097 (1968) [10, 1383 (1968)]
Ultrasoft X-Ray Spectrum of Iodine in KI. (E) T. M. Zimkina and V. A. Fomichev. 10, 1104 (1968) [10, 1392 (1968)]
Investigation of the Energy Structure of MgO by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev, T. M. Zimkina, and I. I. Zhukova. 10, 2421 (1969) [10, 3073 (1968)]
Ultrasoft X-Ray Spectra of Mg and MgO. (E) V. A. Fomichev and I. I. Zhukov. 10, 2992 (1969) [10, 3753 (1968)]

FOMIN, N. V.
Dielectric Constant of a Conductor with an Anisotropic Conduction Band. (T) N. V. Fomin. 10, 133 (1968) [10, 179 (1968)]

FREIDIN, B. M.
Influence of Impurities on the Electrical Properties of Lithium Nitrate. (E) E. V. Khamskii and B. M. Freidin. 10, 2011 (1969) [10, 2550 (1968)]
Influence of Impurities on the Electrical Properties of Barium Nitrate. (E) E. V. Khamskii, B. M. Freidin, and N. D. Sedel'nikova. 10, 2013 (1969) [10, 2551 (1968)]

FREIK, D. M.
Investigation of Structure and Electrical Conductivity of Molybdenum and Titanium Thin Films Deposited on NaCl Single Crystals. (E) R. S. Panchishin, Z. V. Stasyuk, and D. M. Freik. 10, 2149 (1969) [10, 2731 (1968)]

FRENKEL', C. Ya.
Nature of the Central Spot on H_V Diffraction Patterns of Spherulites. (T) Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'. 10, 2471 (1969) [10, 3130 (1968)]

FRIDBERG, I. D.
Mechanisms of Unipolar Direct Electrical Conductivity of Ionic Insulators. (E) N. P. Bogoroditskii, N. E. Timoshchenko, and I. D. Fridberg. 10, 1171 (1968) [10, 1480 (1968)]

FRIDKIN, V. M.
Electroluminescence of Single Crystals of Sodium-Zinc Germanate in a Constant Electric Field. (E) K. A. Verkhovskaya, I. P. Kuz'mina, A. N. Lobachev, and V. M. Fridkin. 10, 1504 (1968) [10, 1906 (1968)]
Phase Transitions in Single-Crystal Sb_2S_3. (E/T) K. A. Verkhovskaya, I. P. Grigas, and V. M. Fridkin. 10, 1583 (1969) [10, 2015 (1968)]
Influence of Nonequilibrium Carrier Screening on Polarization Processes in Ferroelectric SbSI. (E) A. A. Grekov, V. A. Lyakhovitskaya, A. I. Rodin, and V. M. Fridkin. 10, 1762 (1969) [10, 2239 (1968)]
Effect of Nonequilibrium Current Carriers on the Formation of Boundaries between Phases in the Ferroelectric Semiconductor SbSI. (E/T) I. I. Groshik and V. M. Fridkin. 10, 2276 (1969) [10, 2878 (1968)]
Dependence of Dielectric Properties of SbSI on Temperature and on Hydrostatic Pressure. (E) E. I. Gerzanich and V. M. Fridkin. 10, 2452 (1969) [10, 3111 (1968)]
Phase Transitions in $A^VB^{VI}C^{VII}$ Ferroelectric Semiconductors. (E) T. A. Pikka and V. M. Fridkin. 10, 2668 (1969) [10, 3378 (1968)]

FRITSBERG, V. Ya.
Role of Phase Fluctuations in Ferroelectric Phase Transitions in Solid Solutions with Perovskite-Type Structure. (T/E) V. Ya. Fritsberg. 10, 304 (1968) [10, 385 (1968)]

FUNG VAN TKHOM
Determination of the Elastic Constants of Gallium by Measurement of X-Ray Diffuse Scattering. (E) V. P. Glagoleva, A. P. Zvyagina, and Fung Van Tkhom. 10, 2764 (1969) [10, 3480 (1968)]

GABUDA, S. P.
Molecular Diffusion and NMR Spectra of Solids. (T) A. G. Lundin and S. P. Gabuda. 10, 1974 (1969) [10, 2516 (1968)]

GAIBULLAEV, F.
Electric Conductivity of the Lanthanium-Cerium System in the Solid and in the Liquid State. (E) F. Gaibullaev, A. R. Regel', and Kh. Khusanov. 10, 1742 (1969) [10, 2220 (1968)]
Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. (E) F. Gaibullaev, M. Mamadaliev, A. R. Regel', and Kh. Khusanov. 10, 2516 (1969) [10, 3174 (1968)]

GALANOV, E. K.
Temperature-Induced Changes in the 575 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine-Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]
Determination of Certain Dynamic Characteristics of Cubic and Orthorhombic $MClO_4$-Type Crystal Lattices from Data on Infrared Spectra. (E/T) E. K. Galanov and I. A. Brodskii. 10, 2678 (1969) [10, 3392 (1968)]
Symmetry of Impurity Ions of ClO_4^- in Alkali-Halide Crystals at Different Temperatures. (E) E. K. Galanov and V. S. Libov. 10, 2934 (1969) [10, 3693 (1968)]

GALANTSEVA, M. L.
Spectral X-Ray Sensitivity, Energy of Formation of a Carrier Pair, and Quantum Yield in Polymorphic Systems Based on Lead Oxide. (E) M. L. Galantseva and V. A. Izvozchikov. 10, 2509 (1969) [10, 3168 (1968)]

GALETSKAYA, A. D.
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]

GALKIN, V. V.
Ion-Bombardment Induced Damage in Diamond Layers. (E) V. V. Galkin, M. I. Guseva, V. V. Krasnopevtsev, and Yu. V. Milyutin. 10, 706 (1968) [10, 902 (1968)]

GAL'PERIN, Yu. M.
Quantum Oscillations of the Thermomagnetic Coefficients for the Phonon Drag Effect. (T) Yu. M. Gal'perin. 10, 915 (1968) [10, 1152 (1968)]
Acoustoelectric Effect in a Magnetic Field. (T) Yu. M. Gal'perin and V. D. Kagan. 10, 1600 (1969) [10, 2037 (1968)]
Acoustoelectric Effect in Many-Valley Semiconductors and Semimetals in Quantizing Magnetic Fields. (T) Yu. M. Gal'perin. 10, 1840 (1969) [10, 2338 (1968)]

GANAPOLSKII, E. M.
Transformation of Electromagnetic and Ultrasonic Waves in Piezoelectric Crystals. (T) E. M. Ganapol'skii. 10, 777 (1968) [10, 980 (1968)]
Absorption of Hypersound in CdS at Low Temperatures. (E) E. M. Ganapol'skii and V. V. Tarakanov. 10, 785 (1968) [10, 993 (1968)]
Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]

GANEEV, I. G.
Excitation of 10^4 MHz Sound Waves in KH_2PO_4 at 4.2°K. (E) I. G. Ganeev, U. Kh. Kopvillem, and B. P. Smolyakov. 10, 2942 (1969) [10, 3701 (1968)]

GANN, V. V.
The Influence of Magnetic Anisotropy on the Parametric Resonance Threshold in a Uniaxial Ferromagnet. (T) V. V. Gann. 10, 1705 (1969) [10, 2177 (1968)]
Magnetoelastic Pulses in an Inhomogeneous Magnetic Field. (T) V. G. Bar'yakhtar and V. V. Gann. 10, 1832 (1969) [10, 2327 (1968)]
The Transformation of Magnetic Oscillations into Elastic Waves in Antiferromagnets. (T) V. G. Bar'yakhtar, V. V. Gann, and V. P. Krasnov. 10, 1837 (1969) [10, 2335 (1968)]

GANTSEVICH, B. V.
Band Structure of Cubic BN. (T) V. G. Aleshin, V. P. Smirnov, and B. V. Gantsevich. 10, 2282 (1969) [10, 2884 (1968)]

GARBER, R. I.
Observation of the Bauschinger Effect during Twinning of Calcite Crystals. (E) R. I. Garber and E. I. Stepina. 10, 337 (1968) [10, 429 (1968)]
Stacking Faults in Tungsten. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. 10, 799 (1968) [10, 1012 (1968)]
Irreversible Losses Arising during Repeated Back-and-Forth Motion of Dislocations. (E) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 10, 2342 (1969) [10, 2968 (1968)]

GARBUZOV, D. Z.
The Energy Spectrum of Gallium Arsenide Doped with Silicon. (E) Zh. I. Alferov, D. Z. Garbuzov, E. P. Morozov, I. I. Protasov, and D. N. Tret'yakov. 10, 2260 (1969) [10, 2861 (1968)]

GARSHKA, É. P.
Nonlinearity of the Acoustoelectric Interaction in CdS. (E) É. P. Garshka, V. I. Samulionis, B.-P. P. Ketis, and A. S. Zhyulpa. 10, 480 (1968) [10, 611 (1968)]
Alternating Component of the Acoustoelectric Current. (E) P. S. Karla and É. P. Garshka. 10, 852 (1968) [10, 1076 (1968)]

GASHIMADZE, F. M.
Reflection Spectrum and Band Structure of TlSe. (E) F. M. Gashimadze and M. A. Nizametdinova. 10, 2097 (1969) [10, 2665 (1968)]

GASYMOV, T. M.
Phonon Heating in a Semiconductor in a Strong Electric Field and a Quantizing Magnetic Field and Its Effect on the Electrical Conductivity. (E) L. É. Gurevich and T. M. Gasymov. 10, 2577 (1969) [10, 3258 (1968)]

GAVRILKO, G. I.
Fine Structure of the Spectral Lines of Light Scattered by Silicate Glass. (E) G. I. Gavrilko and D. F. Kiselev. 10, 1747 (1969) [10, 2225 (1968)]

GAVRILKO, N. P.
Spectral Investigation of Light Scattered by Quartz Crystals. (E) N. P. Gavrilko and D. F. Kiselev. 10, 2033 (1969) [10, 2574 (1968)]

GAVRILKO, V. G.
Thermal Expansion of Crystalline Krypton near the Triple Point. (E) V. G. Gavrilko, V. G. Manzhelii, V. I. Kuchnev, and A. M. Tolkachev. 10, 2524 (1969) [10, 3182 (1968)]

GAVRILOV, I. A.
EPR of Impurity Ions in Single Crystals of Diaspore α-AlOOH. (E/T) I. A. Gavrilov, L. P. Litovkina, and M. L. Meil'man. 10, 2177 (1969) [10, 2765 (1968)]

GAVRILOV, O. D.
Influence of an Electric Field on Phonon Lines and the Point Symmetry of Various Electron Coloration Centers of NaF. (E) A. A. Kapiyanskii, V. N. Medvedev, and O. D. Gavrilov. 10, 2982 (1969) [10, 3742 (1968)]

GEGUZIN, Ya. E.
Thermal Stability of Uranium Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]
Investigation of Dislocation Processes during Creep of Deformed NaCl and KCl Single Crystals during Heating. (E/T) Ya. E. Geguzin and V. P. Matsokin. 10, 1869 (1969) [10, 2376 (1968)]
Vacancy Breakdown in Alkali-Halide Crystals under Self-Diffusion Conditions. (E) Ya. E. Geguzin and V. I. Solunskii. 10, 2910 (1969) [10, 3760 (1968)]

GEGUZINA, S. Ya.
Damping and Dispersion of Electric and Magnetic Oscillations in a Two-Phase Mixture. (T) S. Ya. Geguzina and M. A. Krivoglaz. 10, 1180 (1968) [10, 1492 (1968)]

GEIFMAN, I. N.
EPR Studies of Mn^{2+} in Some II-VI Mixed Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 10, 2754 (1969) [10, 3471 (1968)]

GEL'D, P. V.
Thermal Conductivity and Thermal Diffusivity of Platinum at High Temperatures. (E/T) V. E. Zinov'ev, R. P. Krentsis, and P. V. Gel'd. 10, 2228 (1969) [10, 2826 (1968)]

GEL'MONT, B. L.
Nonlinear Theory of Recombination Waves in the Short-Wave Range. (T) B. L. Gel'mont. 10, 1155 (1968) [10, 1458 (1968)]

GEL'MONT, V. L.
Nonlinear Theory of Recombination Waves in the Region of Long Wavelengths. (T) V. L. Gel'mont. 10, 70 (1968) [10, 95 (1968)]

GENKIN, G. M.
Theory of Induced Second-Order Raman Scattering by Spin Waves in an Antiferromagnet. (T) V. M. Genkin, G. M. Genkin, and V. M. Fain. 10, 47 (1968) [10, 66 (1968)]
Theory of Raman Scattering in Semiconductors with Plasmons Coupled to Longitudinal Optical Phonons. (T) G. M. Genkin and V. V. Zil'berberg. 10, 1578 (1969) [10, 2008 (1968)]
Coupled Optical Phonons and Magnons and the Interaction of an Electromagnetic Field with an Antiferromagnet. (T) V. M. Genkin and G. M. Genkin. 10, 1712 (1969) [10, 2187 (1968)]

GENKIN, V. N.
Theory of Induced Second-Order Raman Scattering by Spin Waves in an Antiferromagnet. (T) V. M. Genkin, G. M. Genkin, and V. M. Fain. 10, 47 (1968) [10, 66 (1968)]
Coupled Optical Phonons and Magnons and the Interaction of an Electromagnetic Field with an Antiferromagnet. (T) V. M. Genkin and G. M. Genkin. 10, 1712 (1969) [10, 2187 (1968)]

GENKIN, V. N.
Second-Order Nonlinear Conductivity for Band Electrons. (T) V. N. Genkin and P. M. Mednis. 10, 1 (1968) [10, 3 (1968)]

GERASIMOV, Yu. M.
Directional Crystallization of Cadmium Sulfide by a Long-Range Mechanism Using Cathode Sputtering. (E) Yu. M. Gerasimov, G. I. Distler, V. M. Efremenkova, and V. E. Yurasova. 10, 207 (1968) [10, 270 (1968)]
Visualization of Microbreakdowns on Cleaved Surfaces of Quenched NaCl Crystals. (E) Yu. M. Gerasimov, V. G. Govorkov, and G. I. Distler. 10, 2456 (1969) [10, 3115 (1968)]

GERAS'KIN, V. V.
Internal Friction in CdS Single Crystals. (E) A. A. Blistanov, V. V. Geras'kin, and L. A. Sysoev. 10, 1657 (1969) [10, 2115 (1968)]

GERSHENZON, E. M.
Details of Observations of Cyclotron Resonance from Changes in the Static Conductivity. (E/T) E. M. Gershenzon, Yu. A. Gurvich, S. L. Orlova, and N. G. Ptitsyna. 10, 144 (1968) [10, 193 (1968)]
Aspects of Electron Paramagnetic Resonance in n-Type InSb. (E) E. M. Gershenzon, N. M. Pevin, and M. S. Fogel'son. 10, 2278 (1969) [10, 2880 (1968)]
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) L. E. Blagosklonskaya, E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]

GERSHINSKII, A. G.
Asymmetry of Current Passage through Metal–Dielectric–Metal Thin-Film Systems. (E) A. E. Gershinskii and É. G. Kostsov. 10, 200 (1968) [10, 263 (1968)]

GERSHUN, A. S.
Transport of Vacancies and Electrical Processes in Cadmium Sulfide Crystals. (E) A. S. Gershun and B. L. Timan. 10, 1258 (1968) [10, 1583 (1968)]

GERZANICH, E. I.
Dependence of Dielectric Properties of SbSI on Temperature and on Hydrostatic Pressure. (E) E. I. Gerzanich and V. M. Fridkin. 10, 2452 (1969) [10, 3111 (1968)]

GIL'FANOV, F. Z.
Spectrum of Gd^{3+} Impurity Centers in PbF$_2$ Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]

GILINSKII, I. A.
Coherent Amplification of Spin Waves in Ferrites. (T) I. A. Gilinskii and K. A. Ryazantsev. 10, 2877 (1969) [10, 3628 (1968)]

GINDIN, I. A.
Electron-Microscope Investigation of the Effect of the Load-Application Rate on the Structure of Polycrystalline Nickel. (E) I. A. Gindin, V. P. Lebedev, I. M. Neklyudov, and I. I. Bobonets. 10, 1738 (1969) [10, 2216 (1968)]
Twinning and Brittleness of Silicon Iron. (E) I. A. Gindin and L. A. Chirkina. 10, 1989 (1969) [10, 2529 (1968)]

GINZBURG, B. M.
Nature of the Central Spot on H_y Diffraction Patterns of Spherulites. (T) Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'. 10, 2471 (1969) [10, 3130 (1968)]

GINZBURG, S. L.
The Effect of Paramagnetic Impurities on the Critical Field of a Superconductor. (T) S. L. Ginzburg. 10, 2299 (1969) [10, 2906 (1968)]

GINZBURG, V. L.
Lifetime of a Thin Wave with Minimal Energy. (T) V. L. Ginzburg and M. I. Kaganov. 10, 2603 (1969) [10, 3293 (1968)]

GIORGADZE, N. P.
Quantum-Statistical Theory of the Transverse Overhauser Effect. (T) L. L. Buishvili and N. P. Giorgadze. 10, 937 (1968) [10, 1181 (1968)]

GLADKII, V. V.
Nonlinearity of the Polarization of Rochelle Salt in Strong Electric Fields. (E) V. V. Gladkii, E. I. Marchenko, and A. S. Sonin. 10, 375 (1968) [10, 478 (1968)]

GLAGOLEVA, V. P.
Determination of the Elastic Constants of Gallium by Measurement of X-Ray Diffuse Scattering. (E) V. P. Glagoleva, A. P. Zvyagina, and Fung Van Tkhom. 10, 2764 (1969) [10, 3480 (1968)]

GLAUBERMAN, A. E.
Formation of X-Centers in Alkali Halides. (T) A. E. Glauberman and N. A. Tsal'. 10, 739 (1968) [10, 935 (1968)]

Some Absorption Properties of Colored Alkali-Halide Crystals Containing Impurities. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2218 (1969) [10, 2816 (1968)]

The Luminescence of KCl Crystals Containing Quasicolloidal Potassium Centers. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2995 (1969) [10, 3756 (1968)]

GLINCHUK, M. D.
The Angular Dependence of the Halfwidth of the EPR Line of Cu^{2+} in $ZnWO_4$. (T/E) M. D. Glinchuk and V. O. Oganesyan. 10, 1731 (1969) [10, 2209 (1968)]

GLUZMAN, N. G.
Magnetophonon Oscillations of Transverse Magnetoresistance in n-Type Germanium. (E/T) N. G. Gluzman and I. M. Tsidil'kovskii. 10, 2469 (1969) [10, 3218 (1968)]

GNUCHEV, N. M.
Temperature Dependence of the Secondary Emission of Magnesium Oxide Containing Excess Magnesium. (E) V. L. Borisov and N. M. Gnuchev. 10, 1752 (1969) [10, 2230 (1968)]

GOIKHMAN, A. Ya.
Possibility of Using Alkali-Halide Crystals for the Amplification of Light. (E) A. Ya. Goikhman and Yu. M. Popov. 10, 2489 (1969) [10, 3148 (1968)]

GOLAND, Yu. M.
Influence of Specular Reflection on the Sondheimer Effect. (T) Yu. M. Goland. 10, 58 (1968) [10, 81 (1968)]

GOL'DENBERG, A. B.
Some Absorption Properties of Colored Alkali-Halide Crystals Containing Impurities. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2218 (1969) [10, 2816 (1968)]

The Luminescence of KCl Crystals Containing Quasicolloidal Potassium Centers. (E) A. E. Glauberman, Lai Kim-t'en, A. B. Gol'denberg, and S. I. Golub. 10, 2995 (1969) [10, 3756 (1968)]

GOL'DGAMMER, K. A.
The Effect of Paramagnetic Centers on the NMR Spectra of Polymers Having Conjugated Bonds and Their Complexes. (E) A. I. Maklakov, K. A. Gol'dgammer, V. I. Shepelev, and B. G. Tarasov. 10, 2704 (1969) [10, 3421 (1968)]

GOLENISHCHEV-KUTUZOV, V. A.
Nuclear Magnetic Resonance in Lithium Niobate. (E) V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, L. N. Rashkovich, and N. F. Evlanova. 10, 594 (1968) [10, 759 (1968)]

Acoustic Saturation of Lithium Nuclear Magnetic Resonance in Lithium Niobate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, and N. A. Shamukov. 10, 2239 (1969) [10, 2839 (1968)]

Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]

GOLIKOVA, O. A.
Thermoelectric Power and Electrical Conductivity of Titanium and Zirconium Monocarbides in the Temperature Range 20–2000°C. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, and G. M. Klimashin. 10, 124 (1968) [10, 168 (1968)]

Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]

GOLOBOKOV, Yu. N.
Low-Frequency Damping in Germanium. (E) L. N. Aleksandrov, Yu. N. Golobokov, V. N. Orlov, and F. L. Édel'man. 10, 2269 (1969) [10, 2871 (1968)]

GOLOVENCHITS, E. I.
Magnetic Resonance in the Uniaxial Ferromagnet $RbNiF_3$. (E) E. I. Golovenchits, V. A. Sanina, and A. G. Gurevich. 10, 2334 (1969) [10, 2956 (1968)]

GOLOVISTIKOV, A. L.
Decomposition of Several Alkali-Halide Crystals by Laser Radiation and Evaluation of Their Optical Stability. (E) L. M. Belyaev, A. N. Golovistikov, and V. V. Nabatov. 10, 2972 (1969) [10, 3733 (1968)]

GOL'TSMAN, B. M.
Quantum Oscillations of the Kinetic and Photoelectric Coefficients of n-Type Bismuth Telluride (Bi_2Te_3). (E) R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman. 10, 2432 (1969) [10, 3087 (1968)]

GOL'TSOV, Yu. I.
Preparation and Properties of Cadmium Hafnate. (E) L. N. Aver'yanova, I. N. Belyaev, Yu. I. Gol'tsov, L. A. Solov'ev, R. I. Spinko, and O. I. Prokopalo. 10, 2698 (1969) [10, 3416 (1968)]

GOLUB, A. A.
The Josephson Tunnel Effect in Anisotropic Superconductors Containing Nonmagnetic Impurities. (T) A. A. Golub. 10, 61 (1968) [10, 84 (1968)]

The Josephson Effect in a Very Dirty Superconductor. (T) A. A. Golub. 10, 2501 (1969) [10, 3160 (1968)]

GOLUB, S. I.
Some Absorption Properties of Colored Alkali-Halide Crystals Containing Impurities. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2218 (1969) [10, 2816 (1968)]

The Luminescence of KCl Crystals Containing Quasicolloidal Potassium Centers. (E) A. E. Glauberman, Lai Kim-t'en, A. B. Gol'denberg, and S. I. Golub. 10, 2995 (1969) [10, 3756 (1968)]

GOLUB, Yu. K.
Cross-Relaxation in Corundum Crystals Containing Both Iron and Titanium Impurities. (E) Yu. K. Golub', L. S. Kornienko, and B. Yu. Porozov. 10, 2760 (1969) [10, 3477 (1968)]

GOLUBEVA, L. A.
Correlation between Changes in the Lattice Constant and Electrical Conductivity of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva and A. A. Shishelov. 10, 1002 (1968) [10, 1256 (1968)]

GONCHAROV, K. V.
Changes in the Spectrum of Magnetoelastic Signals Due to an Adiabatic Application of a Magnetic Field Pulse. (E) V. I. Uchastkin, Yu. A. Taratorin, V. A. Krasil'nikov, and K. V. Goncharov. 10, 2544 (1969) [10, 3213 (1968)]

GONCHAROVA, E. V.
Coefficient of Thermoemf of Lanthanum Antimonide for Temperatures of 80–500°K. (E) E. V. Goncharova and I. A. Smirnov. 10, 266 (1968) [10, 329 (1968)]

Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]

Optical Absorption in LaSb. (E) E. V. Goncharova, V. P. Zhuze, and D. P. Lukirskii. 10, 1784 (1969) [10, 2262 (1968)]

GORBAN', I. S.
Absorption Spectra of Exciton-Impurity Complexes in Silicon Carbide. (E) I. S. Gorban', A. P. Krokhmal', and S. N. Rud'ko. 10, 312 (1968) [10, 396 (1968)]

GORBATYI, N. A.
Behavior of Cesium on the Faces of a Large Tungsten Single Crystal. (E) N. A. Gorbatyi, L. V. Reshetnikova, and V. M. Sultanov. 10, 940 (1968) [10, 1185 (1968)]
Thermoelectronic Parameters of the Faces of a Nickel Single Crystal. (E) A. Kashetov and N. A. Gorbatyi. 10, 1673 (1969) [10, 2135 (1968)]

GORDEEV, A. D.
"Slow Beats" in the Quadrupole Spin Echo. (T/E) N. E. Ainbinder, V. S. Grechishkin, A. D. Gordeev, and A. N. Osipenko. 10, 1592 (1969) [10, 2026 (1968)]

GORDEEV, G. P.
Molecular Motion in Polyethylene and Polyethyleneterephthalate. (E) G. P. Gordeev and A. I. Sibilev. 10, 2062 (1969) [10, 2618 (1968)]

GORELIK, S. S.
Effect of Ultrasonic Treatment on the Diffusion of Antimony in Germanium. (E) O. V. Abramov, S. S. Gorelik, and V. P. Grabchak. 10, 1972 (1969) [10, 2514 (1968)]
Precision Measurements of Lattice Periods of Strongly Doped Germanium and Silicon. (E) V. T. Bublik, S. S. Gorelik, and A. N. Dubrovina. 10, 2247 (1969) [10, 2846 (1968)]

GORELIK, V. S.
Cross Sections for the Raman Scattering of Light in GaP and CdS Crystals. (E) V. S. Ryazanov, V. S. Gorelik, G. V. Peregudov, M. M. Sushchinskii, and V. A. Chirkov. 10, 1508 (1968) [10, 1909 (1968)]

GORID'KO, N. Ya.
Range of Wavelengths Causing the Photomechanical Effect. (E) P. P. Kuz'menko, N. N. Novikov, and N. Ya. Gorid'ko. 10, 109 (1968) [10, 148 (1968)]

GORKUN, Yu. I.
Electrical Conductivity of a Crystal Plate with a Many-Valley Carrier Energy Spectrum. (T) Yu. I. Gorkun and É. I. Rashba. 10, 2406 (1969) [10, 3053 (1968)]

GORODETSKII, D. A.
Investigation by Low-Energy Electron Diffraction of Scandium Films Adsorbed on a (110) Tungsten Surface. (E) D. A. Gorodetskii and A. A. Yas'ko. 10, 1812 (1969) [10, 2302 (1968)]

GORYAGA, A. N.
Influence of Chemical Homogeneity upon the Critical Parameters of Certain Nickel/Zinc Ferrites. (E) A. N. Goryaga, N. N. Oleinikov, Yu. D. Tret'yakov, and Shrinivasan Si. 10, 2054 (1969) [10, 2608 (1968)]

GORYUNOVA, N. A.
Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

GOVORKOV, V. G.
Visualization of Microbreakdowns on Cleaved Surfaces of Quenched NaCl Crystals. (E) Yu. M. Gerasimov, V. G. Govorkov, and G. I. Distler. 10, 2456 (1969) [10, 3115 (1968)]

GRABCHAK, V. P.
Effect of Ultrasonic Treatment on the Diffusion of Antimony in Germanium. (E) O. V. Abramov, S. S. Gorelik, and V. P. Grabchak. 10, 1972 (1969) [10, 2514 (1968)]

GRACHEV, B. D.
Mechanism of the Origin of the Fine Structure of the Angular Dependence of the Secondary-Electron Emission Coefficient of Single Crystals. (E) A. P. Komar, Yu. S. Korobochko, B. D. Grachev, and V. I. Mineev. 10, 1222 (1968) [10, 1547 (1968)]
Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]

GRASYUK, A. Z.
Anisotropy of Two-Photon Absorption in Optical Excitation of CdSe Semiconductor Lasers. (E/T) A. Z. Grasyuk, I. G. Zubarev, and A. N. Mentser. 10, 427 (1968) [10, 543 (1968)]

GRAZHDANKINA, N. P.
Hall Effect and Electrical Resistivity of $CrTe_{1-x}Sb_x$ Alloys. (E) N. P. Grazhdankina, L. A. Matyushenko, and Yu. S. Bersenev. 10, 527 (1968) [10, 670 (1968)]

GRECHISHKIN, V. S.
"Slow Beats" in the Quadrupole Spin Echo. (T/E) N. E. Ainbinder, V. S. Grechishkin, A. D. Gordeev, and A. N. Osipenko. 10, 1592 (1969) [10, 2026 (1968)]

GREKOV, A. A.
Influence of Nonequilibrium Carrier Screening on Polarization Processes in Ferroelectric SbSI. (E) A. A. Grekov, V. A. Lyakhovitskaya, A. I. Rodin, and V. M. Fridkin. 10, 1762 (1969) [10, 2239 (1968)]

GRIDIN, V. A.
Effect of Pumping Pulses on Birefringence of Neodymium Glass. (E) V. A. Gridin and K. G. Folin. 10, 749 (1968) [10, 946 (1968)]

GRIDENEV, S. A.
Interaction between 90° Domain Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]

GRIGALIS, V. Ya.
Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigalis, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]

GRIGAS, I. P.
Phase Transitions in Single-Crystal Sb_2S_3. (E/T) K. A. Verkhovskaya, I. P. Grigas, and V. M. Fridkin. 10, 1583 (1969) [10, 2015 (1968)]

GRIGOR'EV, N. N.
The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^{V}$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]

GRIGOREV, S. B.
Acoustic Excitation of I = 3/2 Nuclear Spin Systems. (T/E) A. M. Sazonov and S. B. Grigor'ev. 10, 1521 (1969) [10, 1927 (1968)]

GRIGOROV, S. N.
Electron Microscope Determination of the Mean Free Path of Adsorbed Atoms. (E) V. M. Kosevich and S. N. Grigorov. 10, 1998 (1969) [10, 2538 (1968)]

GRINBERG, A. A.
Scattering of Light by Charged Centers in Semiconductors. (T) A. A. Grinberg and N. I. Kramer. 10, 458 (1968) [10, 582 (1968)]
Connection between the Cross Section of Light Scattering by Light and the Nonlinear Polarizability of Crystals. (T) A. A. Grinberg and N. I. Kramer. 10, 1573 (1969) [10, 2002 (1968)]

GRINBERG, B. A.
Dislocation Damping Mechanism in an Ordered Alloy of the AuCu Type. (T) B. A. Grinberg, V. I. Syutkina, and É. S. Yakovleva. 10, 1058 (1968) [10, 1330 (1968)]

GRINCHENKO, Yu. A.
Magnetic Resonance of I^{127} Nuclei in NaI Crystals. (E) Yu. A. Grinchenko, E. R. Dobrovinskaya, and V. L. Timan. 10, 341 (1968) [10, 434 (1968)]
Influence of the Motion of Dislocations on the Ultrasonic Saturation of the NMR Line of Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 979 (1968) [10, 1233 (1968)]
Quadrupole Displacement of the NMR Line in Imperfect Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 2450 (1969) [10, 3110 (1968)]

GROMOVA, L. I.
A Mechanism for the Broadening of the Line Width 2ΔH of Polycrystalline Ferrite Spinels. (E) L. I. Gromova, L. I. Koshkin, and S. A. Fechina. 10, 1965 (1969) [10, 2505 (1968)]

GROSHIK, I. I.
Effect of Nonequilibrium Current Carriers on the Formation of Boundaries between Phases in the Ferroelectric Semiconductor SbSI. (E/T) I. I. Groshik and V. M. Fridkin. 10, 2276 (1969) [10, 2878 (1968)]

GROSS, E. F.
Investigation of the Exciton Quadrupole Transition in Cu_2O in Electric and Magnetic Fields. (E/T) V. T. Agekyan, E. F. Gross, and A. G. Zhilich. 10, 164 (1968) [10, 218 (1968)]
Spectrum of Exciton Complexes in Hexagonal ZnS Crystals. (E) E. F. Gross, L. G. Suslina, and E. B. Shadrin. 10, 818 (1968) [10, 1036 (1968)]

GRUSHKO, Yu. S.
Quadrupole Splitting of the Mössbauer Level of I^{129} in Iodine Dioxide. (E) Yu. S. Grushko, A. N. Murin, B. G. Lur'e, and A. V. Motornyi. 10, 2944 (1969) [10, 3704 (1968)]

GUFEL'D, I. L.
Calculation of the Influence of Strong Electric Fields on the Activation Energy of Surface Diffusion. (T/E) I. L. Gufel'd. 10, 743 (1968) [10, 940 (1968)]

GUREVICH, A. G.
Propagation Time and Excitation Mechanism of Magnetoelastic Waves in a Nonuniform Field. (T) S. A. Mironov and A. G. Gurevich. 10, 63 (1968) [10, 87 (1968)]
Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]
Losses Due to the Excitation and Propagation of Magnetoelastic Waves in a Nonuniform Field. (E/T) S. A. Mironov, A. G. Gurevich, K. V. Shevlyagin, and B. M. Lebed'. 10, 1408 (1968) [10, 1788 (1968)]
Excitation and Amplification of Magnetoelastic Waves. (E/T) K. V. Shevlyagin, S. A. Mironov, A. G. Gurevich, and B. M. Lebed'. 10, 1852 (1969) [10, 2353 (1968)]
Magnetic Resonance in the Uniaxial Ferromagnet $RbNiF_3$. (E) E. I. Golovenchits, V. A. Sanina, and A. G. Gurevich. 10, 2334 (1969) [10, 2956 (1968)]

GUREVICH, L. É.
Instability of a Temperature Gradient in a Highly Conductive Crystal of Low Symmetry. (T) L. É. Gurevich and E. F. Shender. 10, 491 (1968) [10, 625 (1968)]
Theory of a Gradient Instability in the Absence of a Magnetic Field (A Reply to the Remarks of R. Z. Vitlina and S. K. Savviyikh). (T) L. É. Gurevich and I. V. Ioffe. 10, 1298 (1968) [10, 1643 (1968)]
Impedance of an Inhomogeneous Crystal. (T) L. É. Gurevich, I. V. Ioffe, and B. I. Shapiro. 10, 1860 (1969) [10, 2365 (1968)]
Phonon Heating in a Semiconductor in a Strong Electric Field and a Quantizing Magnetic Field and Its Effect on the Electrical Conductivity. (E) L. É. Gurevich and T. M. Gasymov. 10, 2577 (1969) [10, 3258 (1968)]

GUREVICH, V. L.
Influence of Redistribution of the Electric Field on the Amplification of Acoustic Waves in Semiconductors. (T) V. L. Gurevich, R. Katilyus, and B. D. Laikhtman. 10, 2347 (1969) [10, 2975 (1968)]

GURMIN, B. M.
Mechanism of Sputtering of Solids. (E) B. M. Gurmin, T. P. Martynenko, and Yu. A. Ryzhov. 10, 324 (1968) [10, 411 (1968)]

GURO, G. M.
Semiconductor Properties of Barium Titanate. (T) G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 100 (1968) [10, 135 (1968)]
Emission of Light during Repolarization of Barium Titanate. (E/T) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 1640 (1969) [10, 2094 (1968)]
Microwave Absorption by Free Carriers in Barium Titanate. (E) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 2986 (1969) [10, 3746 (1968)]

GURSKAYA, A. V.
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2696 (1968)]

GURVICH, Yu. A.
Details of Observations of Cyclotron Resonance from Changes in the Static Conductivity. (E/T) E. M. Gershenzon, Yu. A. Gurvich, S. L. Orlova, and N. G. Ptitsyna. 10, 144 (1968) [10, 193 (1968)]

GURYLEV, V. K.
Phenomenological Theory of Magnetic Resonance in a Magnetoelastic Medium Having Two Sublattices. (T) L. V. Kurbatov and V. K. Guryiev. 10, 1201 (1968) [10, 1519 (1968)]

GUSEVA, L. M.
Temperature Dependence of the Fundamental Absorption Edge in Triglycine Sulfate. (E) L. M. Guseva and A. S. Sonin. 10, 730 (1968) [10, 925 (1968)]

GUSEVA, M. I.
Ion-Bombardment Induced Damage in Diamond Layers. (E) V. V. Galkin, M. I. Guseva, V. V. Krasnopevtsev, and Yu. V. Milyutin. 10, 706 (1968) [10, 902 (1968)]

GUTMANAS, É. Yu.
Rate of Dislocation Motion in Sodium Chloride Crystals Containing Bivalent Impurities. (E) É. Yu. Gutmanas and É. M. Nadgornyi. 10, 1799 (1969) [10, 2284 (1968)]
A Statistical Treatment of the Movement of Dislocations in Crystals with Pinning Centers. (T/E) É. Yu. Gutmanas and É. M. Nadgornyi. 10, 1805 (1969) [10, 2292 (1968)]

GUTS, Z. A.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Bolkova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

HOCHMANN, V. L.
Dynamics of EPR, Electron Nuclear Double Resonance (ENDOR) and NMR for Centers Having $S = I = 1/2$. (T) V. L. Hochmann, V. Ya. Zevin, and B. D. Shanina. 10, 269 (1968) [10, 337 (1968)]

IDRISOVA, R. M.
Electromechanical Effects in Tellurium. (E) G. B. Bagduev and R. M. Idrisova. 10, 2968 (1969) [10, 3729 (1968)]

IEVLEV, V. M.
Stresses in Epitaxial Films. (E) V. S. Postnikov, V. M. Ievlev, V. K. Belonogov, and I. V. Zolotukhin. 10, 722 (1968) [10, 917 (1968)]
Activation Energy for Migration of Ag and Au Atoms along Natural Cleavage Surfaces of Mica. (E) V. S. Postnikov, V. M. Ievlev, and I. V. Zolotukhin. 10, 2531 (1969) [10, 3189 (1968)]

IGLITSYN, M. I.
Observation of Spatially Phased and Out-of-Phase Oscillations of an Electron-Hole Plasma in a Semiconductor. (E) M. I. Iglitsyn, É. G. Pel', L. Ya. Pervova, and V. I. Fistul'. 10, 2730 (1969) [10, 3446 (1968)]

IL'IN, A. N.
Displacement of Cation Vacancies during Coloration of Alkali Halide Crystals in an Electric Field. (E) Ya. N. Pershits and A. N. Il'in. 10, 719 (1968) [10, 915 (1968)]

IL'IN, V. E.
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]

ILYUKHIN, V. V.
The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]

INDENBAUM, G. V.
Emergence of Dislocations in HgTe Crystals during Annealing in Mercury Vapors. (E/T) G. V. Indenbaum, É. É. Polisar, and A. V. Vanyukov. 10, 1982 (1969) [10, 2524 (1968)]

INDENBOM, V. L.
Dislocation Bowing and the Frank-Read Source. (T) G. N. Dubnova, V. L. Indenbom, and A. A. Shtol'berg. 10, 1387 (1968) [10, 1760 (1968)]
Surmounting of the Elastic Field of Point Defects during the Slip of Dislocations. (T) V. M. Chernov and V. L. Indenbom. 10, 2632 (1969) [10, 3331 (1968)]

IOFFE, A. V.
Decreased Lattice Thermal Conductivity of Ge, Si, and Their Solid Solutions. (E) A. V. Ioffe. 10, 2713 (1969) [10, 3430 (1968)]

IOFFE, I. V.
Phonon Effects in Dielectrics in an External Electric Field. (T) I. V. Ioffe. 10, 1191 (1968) [10, 1506 (1968)]
Theory of a Gradient Instability in the Absence of a Magnetic Field (A Reply to the Remarks of R. Z. Vitlina and S. K. Savvinykh). (T) L. É. Gurevich and I. V. Ioffe. 10, 1298 (1968) [10, 1643 (1968)]
Impedance of an Inhomogeneous Crystal. (T) L. É. Gurevich, I. V. Ioffe, and B. I. Shapiro. 10, 1860 (1969) [10, 2365 (1968)]

IOFFE, V. A.
Electron Paramagnetic Resonance and Thermoluminescence of Irradiated Single Crystals of the Aluminosilicates $NaAlSi_2O_6$ and $LiAlSiO_4$. (E) V. A. Ioffe and I. S. Yanchevskaya. 10, 370 (1968) [10, 472 (1968)]
ESR Evidence of the State of Carriers in V_2O_3. (E) V. A. Ioffe and I. B. Patrina. 10, 639 (1968) [10, 815 (1968)]

IOLIN, E. M.
Effect of the Kinematic Interaction on Spin-Phonon Excitations in a Paramagnet. (T) E. M. Iolin. 10, 285 (1968) [10, 359 (1968)]

IOSILEVSKII, Ya. A.
Dynamics of Model Alternating Crystals. (T) Ya. A. Iosilevskii. 10, 24 (1968) [10, 35 (1968)]
Dynamics of a Lattice with Two-Dimensional Defects. (T) Ya. A. Iosilevskii. 10, 761 (1968) [10, 961 (1968)]
Singularities in the Energy Distribution of Slow Neutrons Inelastically Scattered in Crystals Having Extended Defects. (T) Ya. A. Iosilevskii. 10, 1243 (1968) [10, 1567 (1968)]
Dynamics of Simple Lattices with Linear Defects. (T) Ya. A. Iosilevskii. 10, 1991 (1969) [10, 2531 (1968)]

IRKHIN, Yu. P.
Small Magnetic Polarons in Ferromagnets at Low Temperatures. (T) A. L. Zilichikhis and Yu. P. Irkhin. 10, 1554 (1969) [10, 1974 (1968)]
Hall Effects in Rare-Earth Metals. (T) Sh. Sh. Abel'skii and Yu. P. Irkhin. 10, 1768 (1969) [10, 2245 (1968)]

ISHCHENKO, S. S.
Temperature Dependence of the Hyperfine Interaction Constants of F Centers in LiF. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 996 (1968) [10, 1250 (1968)]
Electron-Nuclear Double Resonance of A Centers in Mixed KCl+LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]

ISHCHUK, V. A.
Double-Layer Adsorption of Oxygen on the (100) Face of a Tungsten Crystal at Room Temperature. (E) Ya. P. Zingerman and V. A. Ishchuk. 10, 2960 (1969) [10, 3720 (1968)]

ISKENDEROV, R. N.
Absorption Spectrum of MnO Single Crystals. (E) R. N. Iskenderov, I. A. Drabkin, L. T. Emel'yanova, and Ya. M. Ksendzov. 10, 2031 (1969) [10, 2573 (1968)]
Photoconductivity of Single Crystals of MnO. (E/T) I. A. Drabkin, L. T. Emel'yanova, R. N. Iskenderov, and Ya. M. Ksendzov. 10, 2428 (1969) [10, 3082 (1968)]

ISKRA, V. D.
Elastic Moduli of CdSb. (E) L. I. Anatychuk, V. D. Iskra, I. M. Rarenko, and B. M. Sharlai. 10, 2702 (1969) [10, 3419 (1968)]

ISMAILOV, S. A.
Microwave-Frequency Dielectric Properties of Divalent Europium Oxides. (E) A. A. Samokhvalov, S. A. Ismailov, and A. Ya. Afanas'ev. 10, 334 (1968) [10, 425 (1968)]
Electrical Conductivity of Ferrites in High Electric Fields at Superhigh Frequency. (E) S. A. Ismailov, A. B. Davydov, and A. A. Samokhvalov. 10, 2505 (1969) [10, 3164 (1968)]

ISMAILOV, Sh. I.
Thermal Destruction of F Centers and Dielectric Losses in NaCl and KCl Crystals. (E) Sh. I. Ismailov, Yu. N. Evstifeev, and Yu. L. Lukantsever. 10, 1322 (1968) [10, 1674 (1968)]

ISUPOV, V. A.
Properties of Pb(Ti, Zr)O_3 Piezoelectric Ceramics and Nature of Their Orientational Dielectric Polarization. (E) V. A. Isupov. 10, 989 (1968) [10, 1244 (1968)]
Nature of Phase Transitions in $PbCd_{0.4}W_{0.4}O_3$. (E) Yu. M. Poplavko, V. G. Tsykalov, V. I. Molchanov, and V. A. Isupov. 10, 1217 (1968) [10, 1542 (1968)]

ITSKEVICH, E. S.
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]
Effect of Pressure on the Electron Effective Mass in Indium Antimonide. (E) E. S. Itskevich and V. A. Sukhoparov. 10, 264 (1968) [10, 327 (1968)]

IVACHIK, I. I.
Semiconductor Properties of Barium Titanate. (T) G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 100 (1968) [10, 135 (1968)]
Emission of Light during Repolarization of Barium Titanate. (E/T) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 1640 (1969) [10, 2004 (1968)]
Microwave Absorption by Free Carriers in Barium Titanate. (E) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 2986 (1969) [10, 3746 (1968)]

IVANKIV, L. I.
Influence of Electron Bombardment on Electrical Properties of Thin Te Films. (E) L. I. Ivankiv and Z. V. Solyanik. 10, 715 (1968) [10, 911 (1968)]
Temperature Dependence of the Electron Bombardment Effects on the Electronic and Physical Properties of Semiconducting Thin Films. (E/T) L. I. Ivankiv, B. M. Palyukh, and Z. V. Solyanik. 10, 2694 (1969) [10, 3412 (1968)]

IVANOV, A. G.
Role of Dislocations in Impact Polarization of Alkali-Halide Crystals. (E) Yu. N. Tyunyaev, A. A. Urusovskaya, V. N. Mineev, and A. G. Ivanov. 10, 2683 (1969) [10, 3399 (1968)]

IVANOV, Yu. S.
Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezuglyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2119 (1968)]

IVANOV-OMSKII, V. I.
X-Ray Diffraction Study of HgTe. (E) V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova. 10, 2447 (1969) [10, 3106 (1968)]

IVLEVA, V. S.
Effect of Doping, As Observed in the Measurement of the Microhardness of GaSb and InSb. (E) V. B. Osvenskii, M. G. Mil'vidskii, O. G. Stolyarov, and V. S. Ivleva. 10, 2212 (1969) [10, 2809 (1968)]

IZVOZCHIKOV, V. A.
Spectral X-Ray Sensitivity, Energy of Formation of a Carrier Pair, and Quantum Yield in Polymorphic Systems Based on Lead Oxide. (E) M. L. Galantseva and V. A. Izvozchikov. 10, 2509 (1969) [10, 3168 (1968)]

KABALKINA, S. S.
Phase Transitions in Group IV-VI Compounds at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 10, 574 (1968) [10, 733 (1968)]

KABANOV, Yu. P.
Electron-Microscope Observation of Prismatic Dislocation Loops in Ge. (E) Yu. P. Kabanov, L. M. Morgulis, and Yu. A. Osip'yan. 10, 523 (1968) [10, 665 (1968)]

KASHLISHVILI, Z. S.
Theory of Cyclotron Resonance of Hot Electrons. (T) L. D. Abuladze and Z. S. Kachlishvili. 10, 1500 (1968) [10, 1902 (1968)]

KADOMTSEVA, A. M.
The Influence of Exchange Interaction of the Ordering of Holmium Ions in Orthoferrites of the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]

KADYSHEVICH, A. E.
Elastic Moduli of Heavily Doped n-Type Germanium at 300-550°K. (E) V. M. Beilin, Yu. Kh. Vekilov, A. E. Kadyshevich, and O. M. Krasil'nikov. 10, 1226 (1968) [10, 1550 (1968)]

KAEKINA, T. M.
Additional Signal Generation by an Ultrasonic Wave in CdS in an Alternating Electric Field. (E) T. M. Kaekina. 10, 1766 (1969) [10, 2244 (1968)]

KAGAN, V. D.
Acoustoelectric Effect in a Magnetic Field. (T) Yu. M. Gal'perin and V. D. Kagan. 10, 1600 (1969) [10, 2037 (1968)]

KAGANOV, M. I.
Characteristics of the Propagation of Electromagnetic Waves in Gyro-Anisotropic Media. (T) M. I. Kaganov and R. P. Yankelevich. 10, 2181 (1969) [10, 2771 (1968)]
Lifetime of a Spin Wave with Minimal Energy. (T) V. L. Ginzburg and M. I. Kaganov. 10, 2603 (1969) [10, 3293 (1968)]

KALINOVICH, D. F.
Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]
Degree of Ionization of Iron Atoms. (E/T) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1589 (1969) [10, 2022 (1968)]
Sign and Degree of Ionization of Molybdenum in a Nickel-Molybdenum Alloy. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1946 (1969) [10, 2480 (1968)]

KALYAMIN, A. V.
Mössbauer Spectrum of Np^{237} after Alpha Decay of Am^{241} in a Thorium Lattice. (E) B. M. Aleksandrov, A. V. Kalyamin, A. S. Krivokhatskii, B. G. Lur'e, A. N. Murin, and Yu. F. Romanov. 10, 1494 (1968) [10, 1896 (1968)]
Calcium Stannate — A Source for Mössbauer Measurements. (E) A. V. Kalyamin, B. G. Lur'e, G. V. Popov, and Yu. F. Romanov. 10, 2522 (1969) [10, 3180 (1968)]

KAMENSKII, V. G.
Influence of an Acoustic Wave on the Optical Properties of Crystals. (T) V. G. Kamenskii and V. L. Pokrovskii. 10, 2841 (1969) [10, 3579 (1968)]

KANDAUROVA, G. S.
Zigzag Domains in Magnetoplumbite Crystals. (E) G. S. Kandaurova. 10, 1818 (1969) [10, 2311 (1968)]
Nature of the High-Coercivity State in Alloys of the Mn—Ga System. (E) Ya. S. Shur, G. S. Kandaurova, and A. V. Deryagin. 10, 1923 (1969) [10, 2449 (1968)]
Magnetic Properties of Mn—Ga Alloy Powders. (E) A. V. Deryagin, G. S. Kandaurova, and Ya. S. Shur. 10, 2454 (1969) [10, 3113 (1968)]

KANEEV, M. A.
Experimental Determination of the Coefficient of Radiation-Stimulated Diffusion in CdS. (E) M. A. Kaneev. 10, 726 (1968) [10, 922 (1968)]

KANER, É. A.
Influence of Dislocations on Electrical Conductivity and Electromagnetic Effects in Metals. (T) É. A. Kaner and É. P. Fel'dman. 10, 2401 (1969) [10, 3046 (1968)]

KAPLYANSKII, A. A.
Concentration-Dependent Line-Shift in Optical Spectra of Ruby. (T/E) A. A. Kaplyanskii, A. K. Przhevuskii, and R. B. Rozenbaum. 10, 1864 (1969) [10, 2370 (1968)]
Influence of an Electric Field on Phonon Lines and the Point Symmetry of Various Electron Coloration Centers of NaF. (E) A. A. Kaplyanskii, V. N. Medvedev, and O. D. Gavrilov. 10, 2982 (1969) [10, 3742 (1968)]

KAPUSTIN, A. I.
Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]

KARAVAEV, G. F.
The Effect of a Small Transverse Magnetic Field on Helical Waves in Solid-State Plasma. (T) Yu. T. Tsipivka and G. F. Karavaev. 10, 2689 (1969) [10, 3406 (1968)]

KARDASHEV, B. K.
Temperature Dependence of Elastic Constants of Calcium Fluoride. (E) S. P. Nikanorov, B. K. Kardashev, and N. S. Kas'kovich. 10, 703 (1968) [10, 898 (1968)]

KARKHANIN, Yu. I.
Injection-Chemical Effect and Electroluminescence of Cu_2O. (E) Yu. I. Karkhanin and Yu. V. Vorob'ev. 10, 1479 (1968) [10, 1880 (1968)]

KARKLINA, M. I.
Effect of Donor and Acceptor Impurities on Microhardness of PbTe. (E) M. S. Ablova, M. N. Vinogradova, and M. I. Karklina. 10, 1929 (1969) [10, 2457 (1968)]

KARLA, P. S.
Alternating Component of the Acoustoelectric Current. (E) P. S. Karla and É. P. Garshka. 10, 852 (1968) [10, 1076 (1968)]

KARLOVA, G. F.
Current Instability in n-Type Germanium in Crossed Electric and Magnetic Fields. (E) L. L. Lyuze, A. V. Zav'yalov, and G. F. Karlova. 10, 2195 (1969) [10, 2790 (1968)]

KARPOV, L. Ya.
Magnetoelectric Effect and Electromagnetic Waves in Crystals. (T) V. N. Lyubimov and L. Ya. Karpov. 10, 2787 (1969) [10, 3502 (1968)]

KARPOVICH, I. A.
Dependence of the Absorption Edge of Films of Indium Antimonide on Thickness. (E) O. N. Filatov and I. A. Karpovich. 10, 2284 (1969) [10, 2886 (1968)]

KARPUSHIN, A. A.
Theory of Shallow Surface States. (T) A. A. Karpushin. 10, 2793 (1969) [10, 3515 (1968)]

KASHETOV, A.
Thermoelectronic Parameters of the Faces of a Nickel Single Crystal. (E) A. Kashetov and N. A. Gorbatyi. 10, 1673 (1969) [10, 2135 (1968)]

KASIMOV, S.
Dependence of the Density-of-States Effective Mass on the Current-Carrier Concentration and Temperature in the n-Type Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov and A. R. Regel'. 10, 2513 (1969) [10, 3171 (1968)]

KAS'KOVICH, N. S.
Temperature Dependence of Elastic Constants of Calcium Fluoride. (E) S. P. Nikanorov, B. K. Kardashev, and N. S. Kas'kovich. 10, 703 (1968) [10, 898 (1968)]

KASPEROVICH, V. S.
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]

KATILYUS, R.
Nonlinear Theory of Sound Amplification in a Piezoelectric Semiconductor with Traps. (T) R. Katilyus. 10, 359 (1968) [10, 458 (1968)]

Influence of Redistribution of the Electric Field on the Amplification of Acoustic Waves in Semiconductors. (T) V. L. Gurevich, R. Katilyus, and B. D. Laikhtman. 10, 2347 (1969) [10, 2975 (1968)]

KATYSHEV, A. N.
Paramagnetic Resonance and Spin-Lattice Relaxation of Er^{3+} and Tb^{3+} Ions in the Crystal Lattice of $CaWO_4$. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 468 (1968) [10, 595 (1968)]
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Spin-Lattice Relaxation of Trigonal Dy^{3+} Centers and Cubic Yb^{3+} Centers. (E/T) L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin. 10, 843 (1968) [10, 1065 (1968)]
Spin-Lattice Relaxation of Ce^{3+} and Yb^{3+} Ions in Single Crystals of $CaWO_4$ and $PbMoO_4$. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 1136 (1968) [10, 1433 (1968)]

KAZAK, F. A.
Internal Stress in Crystals of Ultrasonically Strained Lithium Fluoride. (E) É. P. Belozerova, N. A. Tyapunina, and F. A. Kazak. 10, 2812 (1969) [10, 3540 (1968)]

KAZANSKII, S. A.
Effect of Bonding Character on the Spectra of Co^{2+} and Ni^{2+} Ions in ZnS Crystals Containing Stacking Faults. (E) S. A. Kazanskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1899 (1969) [10, 2415 (1968)]

KAZENNOV, B. A.
Magnetic Properties of HgI_2 Single Crystals. (E) L. P. Strakhov, M. P. Shchetinin, and B. A. Kazennov. 10, 1770 (1969) [10, 2248 (1968)]

KECHIN, V. V.
Determination of the Number of Carriers in Pyrolytic Graphite under Pressure. (E) V. V. Kechin, A. I. Likhter, and G. N. Stepanov. 10, 987 (1968) [10, 1242 (1968)]

KENIGSBERG, N. L.
Preparation and Properties of Thin Films of ZnO. (E) N. L. Kenigsberg and A. N. Chernets. 10, 2235 (1969) [10, 2834 (1968)]

KESSEL', A. R.
Formation of Spin-Echo Signals under the Combined Action of Local Electric and Magnetic Fields. (T) I. S. Donskaya and A. R. Kessel'. 10, 694 (1968) [10, 885 (1968)]

KETILADZE, G. D.
EPR Spectrum and Spin-Lattice Relaxation in Irradiated Polyethylene. (E) L. Ya. Dzhabakhishvili, G. D. Ketiladze, and T. I. Sanadze. 10, 2954 (1969) [10, 3715 (1968)]

KETIS, B.-P. P.
Nonlinearity of the Acoustoelectric Interaction in CdS. (E) É. P. Garshka, V. I. Samulionis, B.-P. P. Ketis, and A. S. Zhyulpa. 10, 480 (1968) [10, 611 (1968)]

KHABIBOV, Kh. G.
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]

KHACHATURYAN, A. G.
Formation Theory for Three-Dimensional Macroperiodic Lattices Created by a Regularly Segregated New Phase during Decomposition. (T) A. G. Khachaturyan. 10, 1613 (1969) [10, 2056 (1968)]
Nucleation of a New Phase in Solid Solutions. (T) A. L. Roitburd, A. G. Khachaturyan, and T. S. Plaksina. 10, 1684 (1969) [10, 2149 (1968)]

KHAIMOV-MAL'KOV, V. Ya.
Optical Homogeneity of Ruby Crystals and Its Relation to the Radiation Divergence of Lasers. (E) Yu. K. Danileiko, A. A. Manenkov, A. M. Prokhorov, and V. Ya. Khaimov-Mal'kov. 10, 2154 (1969) [10, 2738 (1968)]

KHAINOVSKAYA, V. V.
The Correlation of the Electrical and Mechanical Properties of Irradiated Germanium Crystals. (E) V. V. Khainovskaya, F. L. Édel'man, and L. S. Smirnov. 10, 211 (1968) [10, 274 (1968)]
Interaction of Dislocations with Radiation Defects in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 10, 1224 (1968) [10, 1549 (1968)]

KHALILOV, Kh. M.
Influence of Temperature on the Elastic Constants of a Te Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 10, 507 (1968) [10, 643 (1968)]
Generation and Reception of Ultrasonic Vibrations by Alkali-Halide Single Crystals. (E) Kh. M. Khalilov, A. I. Agaev, V. M. Zuev, and Ya. Sh. Palagashvili. 10, 977 (1968) [10, 1231 (1968)]
Conversion of Ultrasonic into Electrical Oscillations by KCl Single Crystals. (E/T) Kh. M. Khalilov, Ya. Sh. Palagashvili, A. I. Agaev, and V. M. Zuev. 10, 2356 (1969) [10, 2987 (1968)]

KHAMSKII, E. V.
Influence of Impurities on the Electrical Properties of Lithium Nitrate. (E) E. V. Khamskii and B. M. Freidin. 10, 2011 (1969) [10, 2550 (1968)]
Influence of Impurities on the Electrical Properties of Barium Nitrate. (E) E. V. Khamskii, B. M. Freidin, and N. D. Sedel'nikova. 10, 2013 (1969) [10, 2551 (1968)]

KHANNANOV, Sh. Kh.
Interaction between an Edge Dislocation and the Boundary of an Incline. (T) V. I. Vladimirov and Sh. Kh. Khannanov. 10, 2848 (1969) [10, 3589 (1968)]

KHARCHENKO, N. F.
The Contribution of High-Frequency Optical Transitions to the Faraday Effect in the Antiferromagnetic MnF_2. (E/T) N. F. Kharchenko and V. V. Eremenko. 10, 1112 (1968) [10, 1402 (1968)]
Change of the Faraday Effect in Yttrium Iron Garnet in a Strong Magnetic Field. (E) N. F. Kharchenko, L. I. Belyi, and O. P. Tutakina. 10, 2221 (1969) [10, 2819 (1968)]

KHARITONOVA, V. N.
Investigation of the Distribution Statistics of Paramagnetic Centers Using Relaxation Parameters of Nonuniformly Broadened EPR Lines. (T) V. I. Muromtsev, V. V. Pomortsev, and V. N. Kharitonova. 10, 1933 (1969) [10, 2462 (1968)]

KHASHKHOZHEV, Z. M.
Scattering of Light by Spin-Ordering Fluctuations Close to the Néel Point in Antiferromagnetic $KNiF_3$. (E) Z. M. Khashkhozhev, R. V. Pisarev, and G. A. Smolenskii. 10, 2772 (1969) [10, 3487 (1968)]

KHATELISHVILI, G. V.
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Berzukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]

KHATS'KO, E. N.
Anisotropy of Magnetic Properties of Zinc Tungstate with Cobalt Admixture. (E/T) A. I. Zvyagin and E. N. Khats'ko. 10, 2970 (1969) [10, 3730 (1968)]

KHEIFETS, N. V.
Magnetic Susceptibility of Solid Solutions in Iron Suboxide in Magnesium Oxide. (E/T) S. M. Ariya, B. Ya. Brach, and N. V. Kheifets. 10, 2112 (1969) [10, 2683 (1968)]

KHIL'KO, G. I.
Structure of Zinc Sulfide Single Crystals Grown from the Melt under Pressure. (E) G. V. Anan'eva, K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1417 (1968) [10, 1800 (1968)]
Effect of Bonding Character on the Spectra of Co^{2+} and Ni^{2+} Ions in ZnS Crystals Containing Stacking Faults. (E) S. A. Kazanskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1899 (1969) [10, 2415 (1968)]

KHIZHNYAK, N. A.
Collision of an Atom with a Solid Film. (T) A. S. Dolgov and N. A. Khizhnyak. 10, 2083 (1969) [10, 2647 (1968)]

KHLEBOPROS, R. G.
Magnetoelastic Instability during Uniform Precession in a Ferromagnet. (T) R. G. Khlebopros and V. E. Shapiro. 10, 487 (1968) [10, 620 (1968)]

KHOKHLOV, V. I.
Singularities in the Acoustic Vibration Spectrum of a Crystal Containing a Planar Defect. (T) A. M. Kosevich and V. I. Khokhlov. 10, 39 (1968) [10, 56 (1968)]

KHOMKEVICH, V. I.
Determination of the Energy of Formation of Vacancies in Nickel by the Technique of Quenching in Liquid Helium. II. (E) A. A. Mamalui, T. D. Ositinskaya, V. A. Pervakov, and V. I. Khomkevich. 10, 2290 (1969) [10, 2892 (1968)]

KHUCHUA, N. P.
Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$, a Ferroelectric with an Indistinct Phase Transition. (E) N. P. Khuchua, V. F. Bova, and I. E. Myl'nikova. 10, 194 (1968) [10, 257 (1968)]

KHUSANOV, Kh.
Electric Conductivity of the Lanthanum-Cerium System in the Solid and in the Liquid State. (E) F. Gaibullaev, A. R. Regel', and Kh. Khusanov. 10, 1742 (1969) [10, 2220 (1968)]
Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. (E) F. Gaibullaev, M. Mamadaliev, A. R. Regel', and Kh. Khusanov. 10, 2516 (1969) [10, 3174 (1968)]

KHUSIDMAN, M. B.
F Centers in Hexagonal Boron Nitride Enriched with the B^{10} Isotope. (E) M. B. Khusidman and V. S. Neshpor. 10, 975 (1968) [10, 1229 (1968)]

KICHIGIN, D. A.
Angular Dependence of the Cyclotron-Resonance for Hot Carriers in Germanium. (E/T) D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak. 10, 406 (1968) [10, 518 (1968)]

KIRVIDZE, R. R.
Effect of Diffusion on Amplification of Electromagnetic Waves in a Semiconductor Plasma in the Presence of a Negative Volt-Ampere Characteristic. (T) R. R. Kikvidze. 10, 213 (1968) [10, 276 (1968)]
Excitation of Electromagnetic Waves in a Solid-State Plasma Having a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze and E. P. Fetisov. 10, 911 (1968) [10, 1147 (1968)]

KIL'DISHEV, V. N.
Parametric Interaction of Ultrasonic and Magnetic Oscillations in a Ferromagnet. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 475 (1968) [10, 605 (1968)]
Peculiarities of Magnetoacoustic Resonance in Ferrites. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 2975 (1969) [10, 3735 (1968)]

KIRGINTSEV, A. N.
Germanium Single-Crystal Production in a Rotating Container. (E) A. N. Kirgintsev and Yu. A. Rybin. 10, 1857 (1969) [10, 2361 (1968)]

KIRYUKHIN, N. N.
Spin Waves in a Medium Having Space-Time Periodicity. (T) N. N. Kiryukhin and F. V. Lisovskii. 10, 556 (1968) [10, 709 (1968)]

KISELEV, D. F.
Fine Structure of the Spectral Lines of Light Scattered by Silicate Glass. (E) G. I. Gavriiko and D. F. Kiselev. 10, 1747 (1969) [10, 2225 (1968)]
Spectral Investigation of Light Scattered by Quartz Crystals. (E) N. P. Gavriiko and D. F. Kiselev. 10, 2033 (1969) [10, 2574 (1968)]

KISELEVA, K. V.
X-Ray Study of the Phase Transition in Nb_3Sn. (E) S. A. Medvedev, K. V. Kiseleva, and V. V. Mikhailov. 10, 584 (1968) [10, 746 (1968)]

KISELEVA, M. N.
Optical Dichroism of Absorption Bands and Structure of Certain Hole Centers in MeF_2—RE Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 10, 2563 (1969) [10, 3239 (1968)]

KISHAN, P.
Franz-Keldysh Effect in Gallium Phosphide. (E) G. A. Chalikyan, V. K. Subashiev, and P. Kishan. 10, 348 (1968) [10, 442 (1968)]

KISKACHI, A. Yu.
Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]

KISLOVSKII, L. D.
Temperature-Induced Changes in the 575 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine-Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]

KITAEV, L. V.
The Nonlinear Theory of Ferromagnetic Resonance. (T) L. V. Kitaev and I. G. Fedoseeva. 10, 951 (1968) [10, 1198 (1968)]
Nonlinear Effects in a Ferrite for Parallel Pumping. (T) L. V. Kitaev. 10, 2673 (1969) [10, 3385 (1968)]

KITAIGORODSKII, A. I.
Computation of the Characteristic Temperature of Naphthalene by Use of Atom—Atom Potentials. (T) A. I. Kitaigorodskii and É. I. Mukhtarov. 10, 2757 (1969) [10, 3474 (1968)]

KLESHCHINSKII, L. I.
X-Ray Diffraction Study of HgTe. (E) V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova. 10, 2447 (1969) [10, 3106 (1968)]

KLIMASHIN, G. M.
Thermoelectric Power and Electrical Conductivity of Titanium and Zirconium Monocarbides in the Temperature Range 20-2000°C. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, and G. M. Klimashin. 10, 124 (1968) [10, 168 (1968)]

KLIMENKO, E. V.
Electronic State of Sodium Atoms Adsorbed on a (110) Face of Tungsten. (E) E. V. Klimenko and A. G. Naumovets. 10, 1980 (1969) [10, 2522 (1968)]
Investigation of Sodium Adsorption on the Surface of a Tungsten Single Crystal in a Field-Emission Microscope. (E) E. V. Klimenko and V. K. Medvedev. 10, 1562 (1969) [10, 1986 (1968)]

KLOCHIKHIN, A. A.
Anharmonic Interactions in a Lattice with Impurities in the Presence of Localized and Quasilocalized Vibrations. (T) A. A. Klochikhin and A. V. Subashiev. 10, 2316 (1969) [10, 2932 (1968)]
Temperature Dependence of the High-Frequency Band Width of Crystal and Local Vibrations. (E/T) A. A. Klochikhin, T. I. Maksimova, and A. I. Stekhanov. 10, 2617 (1969) [10, 3312 (1968)]

KLYAVIN, O. V.
The Effect of Smoothed Surface Defects on the Rupture Stresses of Germanium Single Crystals at Temperatures of 300 and 4.2°K. (E) S. V. Tsivinskii, O. V. Klyavin, and A. V. Stepanov. 10, 1108 (1968) [10, 1397 (1968)]
Revelation of Dislocation Etch Pits in Sodium Chloride Single Crystals Deformed along the Cube Plane. (E) O. V. Klyavin, S. G. Simashko, and A. V. Stepanov. 10, 2102 (1969) [10, 2671 (1968)]

KLYUEV, V. P.
Nuclear Magnetic Resonance in Lithium Niobate Crystals. (E) V. L. Bogdanov, V. V. Lemanov, V. P. Klyuev, and S. A. Fedulov. 10, 886 (1968) [10, 1118 (1968)]
Excitation and Propagation of Longitudinal Elastic Waves with Frequencies from 200 to 2000 MHz in Lithium Niobate Crystals. (E) V. V. Lemanov, A. B. Sherman, G. A. Smolenskii, N. B. Angert, and V. P. Klyuev. 10, 1357 (1968) [10, 1720 (1968)]
Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]

KMITA, T. G.
Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]

KNAB, G. G.
Investigation of Structure Defects in Lithium Fluoride by the Thermally Stimulated Electron Emission Method. (E) G. G. Knab and A. A. Urusovskaya. 10, 505 (1968) [10, 641 (1968)]

KOCHKIN, A. P.
Application of the Wigner-Seitz Cellular Method for Calculating Electronic Structures and Polymorphic Transitions in Alkali Metals under Pressure. (T) R. G. Arkhipov, E. S. Alekseev, and A. P. Kochkin. 10, 1725 (1969) [10, 2202 (1968)]

KOGAN, A. V.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Boikova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

KOGAN, Sh. M.
Superheating Instability in a Semiconductor Plasma in Crossed Electric and Magnetic Fields. (T) Sh. M. Kogan. 10, 1213 (1968) [10, 1536 (1968)]

KOIKOV, S. N.
Effective Fields in Crystals Having the Perovskite, Pyrochlore, and Rutile Structures. (T) S. N. Koikov and M. N. Rozova. 10, 2661 (1969) [10, 3369 (1968)]
Lattice Model Estimates of the Conditions of Ferroelectric Transition in Pervoskite-Type Crystals. (T) G. A. Efremov and S. N. Koikov. 10, 2732 (1969) [10, 3449 (1968)]
Estimate of Conditions of Ferroelectric Transition in Crystals Having the SbSI Structure. (T/E) S. N. Koikov and M. N. Rozov. 10, 2912 (1969) [10, 3672 (1968)]

KOKOEVA, V. P.
A Dynamic Study of the Quadratic Electrooptical Effect in Barium Titanate. (E) A. A. Arabidze and V. P. Kokoeva. 10, 151 (1968) [10, 202 (1968)]

KOLESNICHENKO, S. F.
Dielectric Properties of $Bi_4Ti_3O_{12}$ Crystals. (E) N. N. Krainik, I. E. Myl'nikova, and S. F. Kolesnichenko. 10, 198 (1968) [10, 260 (1968)]

KOLESNIKOV, N. V.
Paramagnetic Resonance Investigation of Manganese Atoms, Stabilized in Various Molecular Matrices. (E) P. A. Zhitnikov and N. V. Kolesnikov. 10, 89 (1968) [10, 120 (1968)]

KOLOBOVA, K. M.
Kβ X-Ray Spectra of Fe in Iron Oxides. (E) K. M. Kolobova, S. A. Nemnonov, and E. V. Agapova. 10, 571 (1968) [10, 729 (1968)]

KOLOMIETS, B. T.
X-Ray Diffraction Study of HgTe. (E) V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova. 10, 2447 (1969) [10, 3106 (1968)]

KOLOT, V. Ya.
Oxidation of Tungsten at Room Temperature. (E) V. F. Rybalko, V. Ya. Kolot, and Ya. M. Fogel'. 10, 2518 (1969) [10, 3176 (1968)]

KOLTUNOV, V. I.
Characteristic Features of the Structure of Copper Whiskers Deformed by Torsion. (E) V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer, and V. I. Koltunov. 10, 516 (1968) [10, 652 (1968)]

KOLYADIN, A. I.
The Distribution of Structural Defects in Crystals of Synthetic Corundum. (E) L. E. Ageeva, M. I. Abaev, and A. I. Kolyadin. 10, 862 (1968) [10, 1089 (1968)]

KOMAR, A. P.
Mechanism of the Origin of the Fine Structure of the Angular Dependence of the Secondary-Electron Emission Coefficient of Single Crystals. (E) A. P. Komar, Yu. S. Korobochko, B. D. Grachev, and V. I. Mineev. 10, 1222 (1968) [10, 1547 (1968)]
Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]

KOMNIK, S. N.
Formation of Dislocation Structure in Alkali-Halide Crystals during Plastic Deformation. (E) S. N. Komnik. 10, 118 (1968) [10, 159 (1968)]
Generation of Twinning and Full Dislocations during Expansion of Twin Layers in Calcite. (E) V. Z. Bengus, S. N. Komnik, and V. I. Startsev. 10, 253 (1968) [10, 317 (1968)]

KOMNIK, Yu. F.
Origin of Nonequilibrium Phases in Thin Films. (T) Yu. F. Komnik. 10, 248 (1968) [10, 312 (1968)]

KONDRASHEV, A. I.
Electron Emission Due to Bombardment of NaCl and KCl Single Crystals with Slow Inert-Gas Ions Incident at Various Angles. (E) N. N. Petrov, N. F. Volkov, and A. I. Kondrashev. 10, 832 (1968) [10, 1053 (1968)]

KONOBEEV, Yu. V.
Exciton Annihilation at a Metal-Dielectric Interface. (T) V. M. Agranovich, Yu. V. Konobeev, and M. A. Mekhtiev. 10, 1383 (1968) [10, 1754 (1968)]

KONONCHUK, G. L.
Change in the Refractive Index of Ruby Due to Population Inversion. (E) N. A. Anisimov and G. L. Kononchuk. 10, 2491 (1969) [10, 3150 (1968)]

KONONOV, B. A.
Influence of the Crystal Structure on the Loss of Energy by Fast Protons in Single Crystals of Alkali Halides. (E) É. T. Shipatov and B. A. Kononov. 10, 679 (1968) [10, 854 (1968)]

KONOROVA, L. F.
Thermal Defects in Germanium. (E) L. F. Konorova. 10, 2233 (1969) [10, 2831 (1968)]

KONSIN, P. I.
Field-Dependence of Soft Ferroelectric Mode Frequencies. (T) P. I. Konsin and N. N. Kristofel'. 10, 1773 (1969) [10, 2250 (1968)]

KONSTANTINOV, O. V.
Calculation of the Conditions for the Excitation of Recombination Waves in Germanium Containing Compensating Impurities. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 10, 686 (1968) [10, 876 (1968)]

KONTOROVA, T. A.
Anharmonicity of Thermal Vibrations in Metals and Ionic Crystals. (T/E) T. A. Kontorova. 10, 389 (1968) [10, 496 (1968)]
Existence of the Electromechanical Effect in Germanium. (R) M. S. Ablova and T. A. Kontorova. 10, 2000 (1969) [10, 2540 (1968)]

KOPTSIK, V. A.
Successive Phase Transitions in the Ferroelectric Crystals $K_4Fe(CN)_6 \cdot 3H_2O$. (E) A. Ya. Krasnikova and V. A. Koptsik. 10, 709 (1968) [10, 905 (1968)]

KOPVILLEM, U. Kh.
Electric Paramagnetic Resonance of Cr^{3+} Ions in Polydomain $LiNbO_3$. (E) B. P. Smolyakov and U. Kh. Kopvillem. 10, 229 (1968) [10, 292 (1968)]
Generation of Sound in the Forced Phonon Induction Mode. (T) U. Kh. Kopvillem and V. R. Nagibarov. 10, 587 (1968) [10, 750 (1968)]
Nuclear Magnetic Resonance in Lithium Niobate. (E) V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, L. N. Rashkovich, and N. F. Evlanova. 10, 594 (1968) [10, 759 (1968)]
Acoustic Saturation of Lithium Nuclear Magnetic Resonance in Lithium Niobate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, and N. A. Shamukov. 10, 2239 (1969) [10, 2839 (1968)]
Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]
Excitation of 10^4 MHz Sound Waves in KH_2PO_4 at 4.2°K. (E) I. G. Ganeev, U. Kh. Kopvillem, and B. P. Smolyakov. 10, 2942 (1969) [10, 3701 (1968)]

KORABLEV, V. V.
Elastic Reflection of Electrons from Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 518 (1968) [10, 655 (1968)]
Angular Dependence of Secondary-Emission Characteristics of Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1246 (1968) [10, 1570 (1968)]

Angular Dependence of the Secondary Electron Emission Coefficient of Single-Crystal Silicon in the Range of Incident Electron Energy from 100 to 2000 eV. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1512 (1968) [10, 1913 (1968)]

KORNFEL'D, M. I.
Excess Electric Charges in Alkali-Halide Crystals. (E) M. I. Kornfel'd. 10, 1904 (1969) [10, 2422 (1968)]

KORNIENKO, L. S.
Cross-Relaxation in Corundum Crystals Containing Both Iron and Titanium Impurities. (E) Yu. K. Golub', L. S. Kornienko, and B. Yu. Porozov. 10, 2760 (1969) [10, 3477 (1968)]

KOROBOCHKO, Yu. S.
Mechanism of the Origin of the Fine Structure of the Angular Dependence of the Secondary-Electron Emission Coefficient of Single Crystals. (E) A. P. Komar, Yu. S. Korobochko, B. D. Grachev, and V. I. Mineev. 10, 1222 (1968) [10, 1547 (1968)]
Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]

KOROLEVA, L. I.
Anisotropy of the Paramagnetic Curie Point in Hexagonal Ferrites. (E) K. P. Belov, L. I. Koroleva, and L. P. Mitina. 10, 2329 (1969) [10, 2950 (1968)]

KOROVIN, O. P.
Interaction of Light Quanta with Metals. (T) O. P. Korovin. 10, 2762 (1969) [10, 3479 (1968)]

KORSAK, K. V.
The Fine Structure of the Electron-Vibrational Spectrum of Extrinsic Absorption or Emission of Light Due to the Interaction of Electrons with Localized Modes. (T) K. V. Korsak and M. A. Krivoglaz. 10, 1952 (1969) [10, 2488 (1968)]

KORSUN', V. M.
Changes in the Dielectric Properties of Copper Diffused Zinc Sulfide Crystals. (E) V. M. Korsun' and A. M. Nemchenko. 10, 2696 (1969) [10, 3414 (1968)]

KORSUNSKAYA, N. E.
Formation of New Local Centers in CdS Single Crystals in the Presence of Free Electrons and Holes. (E) N. E. Korsunskaya, I. V. Markevich, and M. K. Sheinkman. 10, 409 (1968) [10, 522 (1968)]

KORZO, V. F.
Temperature Dependence of Electrical Strength of SiO_2 Films. (E) V. F. Korzo. 10, 1256 (1968) [10, 1582 (1968)]
Effect of Charged Defects on the Breakdown of Thin Dielectrics. (E) V. F. Korzo and G. A. Lyashchenko. 10, 2665 (1969) [10, 3374 (1968)]

KOSEVICH, A. M.
Singularities in the Acoustic Vibration Spectrum of a Crystal Containing a Planar Defect. (T) A. M. Kosevich and V. I. Khokhlov. 10, 39 (1968) [10, 56 (1968)]
Dynamic Damping of Dislocations by Impurities. (T) A. M. Kosevich and V. D. Natsik. 10, 1220 (1968) [10, 1545 (1968)]

KOSEVICH, V. M.
Moiré Patterns Due to Misfit Dislocations in Double-Layer Films of Gold and a Gold-Copper Alloy. (E/T) V. M. Kosevich, L. S. Palatnik, and L. E. Chernyakova. 10, 1644 (1969) [10, 2099 (1968)]
Mechanism of Epitaxial Growth of PbTe on KCl. (E) V. M. Kosevich, L. S. Palatnik, and V. K. Sorokin. 10, 1936 (1969) [10, 2465 (1968)]
Electron Microscope Determination of the Mean Free Path of Adsorbed Atoms. (E) V. M. Kosevich and S. N. Grigorov. 10, 1998 (1969) [10, 2538 (1968)]

KOSHKIN, L. I.
A Mechanism for the Broadening of the Line Width $2\Delta H$ of Polycrystalline Ferrite Spinels. (E) L. I. Gromova, L. I. Koshkin, and S. A. Fechina. 10, 1965 (1969) [10, 2505 (1968)]

KOSILOV, A. T.
Characteristic Features of the Structure of Copper Whiskers Deformed by Torsion. (E) V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer, and V. I. Koltunov. 10, 516 (1968) [10, 652 (1968)]

KOSILOVA, V. G.
Interaction of Point Defects Taking Account of Volume Dispersion. (T) V. G. Kosilova, I. A. Kunin, and É. G. Sosnina. 10, 291 (1968) [10, 367 (1968)]

KOST, M. E.
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]

KOSTSOV, É. G.
Asymmetry of Current Passage through Metal–Dielectric–Metal Thin-Film Systems. (E) A. E. Gershinskii and É. G. Kostsov. 10, 200 (1968) [10, 263 (1968)]

KOSTYUK, V. P.
Anisotropy of Chromium Films Prepared by the Oblique Incidence of a Molecular Beam on a Substrate. (E) V. P. Kostyuk and I. N. Shklyarevskii. 10, 250 (1968) [10, 315 (1968)]
Method of Investigating the Oxidation Kinetics of Metals. (E) I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii. 10, 2439 (1969) [10, 3097 (1968)]

KOTOV, B. A.
Experimental Determination of the Thermal Vibration Spectrum of White Tin. (E) B. A. Kotov, N. M. Okuneva, and É. L. Plachenova. 10, 402 (1968) [10, 513 (1968)]

KOVALENKO, E. S.
Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium-Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]

KOVALEVSKAYA, Yu. A.
Hall Effect in Chromium. (E) E. B. Amitin and Yu. A. Kovalevskaya. 10, 1483 (1968) [10, 1884 (1968)]

KOVARSKII, V. Ya.
Diffusion in Silicon Nitride-Aluminum Films. (E) V. Ya. Kovarskii, I. T. Aleksanyan, O. E. Bondarenko, and B. M. Orlov. 10, 209 (1968) [10, 272 (1968)]

KOVENSKII, I. I.
Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]
Sign and Degree of Ionization of Molybdenum Alloy. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1946 (1969) [10, 2480 (1968)]
Degree of Ionization of Iron Atoms. (E/T) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1589 (1969) [10, 2022 (1968)]

KOVTONYUK, N. F.
Semiconductor Properties of Barium Titanate. (T) G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 100 (1968) [10, 135 (1968)]
Emission of Light during Repolarization of Barium Titanate. (E/T) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 1640 (1969) [10, 2094 (1968)]
Microwave Absorption by Free Carriers in Barium Titanate. (E) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 2986 (1969) [10, 3746 (1968)]

KOZHEMYAKIN, N. V.
Antiphase Domain Boundary Equilibrium and Short-Range Order. (E) N. V. Kozhemyakin and L. E. Popov. 10, 1619 (1969) [10, 2065 (1968)]

KOZLOV, V. A.
Angular Dependence of the Induced Magnetic Anisotropy Constant of Fe–Ni–Co Ferrites. (E) N. L. Bryukhatov, N. L. Pakhomova, and V. A. Kozlov. 10, 1477 (1968) [10, 1879 (1968)]

KOZLOV, V. F.
Use of Secondary Ionic Emission to Study Bulk Processes in Solids. (T/E) V. F. Kozlov, V. M. Pistryak, and Ya. M. Fogel'. 10, 2952 (1969) [10, 3713 (1968)]

KOZLOV, V. G.
Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium-Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]
Pseudo-Stark Splitting of EPR Lines of Cr^{3+} in α-$MgMoO_4$. (E) V. G. Kozlov and M. L. Meil'man. 10, 2919 (1969) [10, 3679 (1968)]

KOZLOV, Yu. I.
Nature of the Exoelectron Emission from the Surface of Silicon. (E) Yu. I. Kozlov and V. I. Sokolov. 10, 1237 (1968) [10, 1561 (1968)]

KRAINIK, N. N.
Dielectric Properties of $Bi_4Ti_3O_{12}$ Crystals. (E) N. N. Krainik, I. E. Myl'nikova, and S. F. Kolesnichenko. 10, 198 (1968) [10, 260 (1968)]
Electrooptical Effect in $PbMg_{1/3}Nb_{2/3}O_3$ Crystals. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 365 (1968) [10, 467 (1968)]
Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{2/3}O_3$, $PbMg_{1/3}Ta_{2/3}O_3$, and $PbNi_{1/3}Nb_{2/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]

KRAMER, N. I.
Scattering of Light by Charged Centers in Semiconductors. (T) A. A. Grinberg and N. I. Kramer. 10, 458 (1968) [10, 582 (1968)]
Connection between the Cross Section of Light Scattering by Light and the Nonlinear Polarizability of Crystals. (T) A. A. Grinberg and N. I. Kramer. 10, 1573 (1969) [10, 2002 (1968)]

KRASIL'NIKOV, O. M.
Elastic Moduli of Heavily Doped n-Type Germanium at 300-550°K. (E) V. M. Beilin, Yu. Kh. Vekilov, A. E. Kadyshevich, and O. M. Krasil'nikov. 10, 1226 (1968) [10, 1550 (1968)]
Temperature Dependence of the Elastic Constants of Heavily-Doped Gallium Arsenide. (E) V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov. 10, 2443 (1969) [10, 3101 (1968)]

KRASIL'NIKOV, V. A.
Changes in the Spectrum of Magnetoelastic Signals Due to An Adiabatic Application of a Magnetic Field Pulse. (E) V. I. Uchastkin, Yu. A. Taratorin, V. A. Krasil'nikov, and K. V. Goncharov. 10, 2544 (1969) [10, 3213 (1968)]

KRASNIKOVA, A. Ya.
Successive Phase Transitions in the Ferroelectric Crystal $K_4Fe(CN)_6 \cdot 3H_2O$. (E) A. Ya. Krasnikova and V. A. Koptsik. 10, 709 (1968) [10, 905 (1968)]

KRASNOPEVTSEV, V. V.
Ion-Bombardment Induced Damage in Diamond Layers. (E) V. V. Galkin, M. I. Guseva, V. V. Krasnopevtsev, and Yu. V. Milyutin. 10, 706 (1968) [10, 902 (1968)]

KRASNOV, V. P.
The Transformation of Magnetic Oscillations into Elastic Waves in Antiferromagnets. (T) V. G. Bar'yakhtar, V. V. Gann, and V. P. Krasnov. 10, 1837 (1969) [10, 2335 (1968)]

KRASNOV, Yu. S.
Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sorgeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]

KRENTSIS, R. P.
Thermal Conductivity and Thermal Diffusivity of Platinum at High Temperatures. (E/T) V. E. Zinov'ev, R. P. Krentsis, and P. V. Gel'd. 10, 2228 (1969) [10, 2826 (1968)]

KRETSU, I. P.
Effect of Electric Field and Temperature on Exciton Radiation Intensity in GaP. (E) B. M. Ashkinadze, I. P. Kretsu, S. L. Pyshkin, S. M. Ryvkin, and I. D. Yaroshetskii. 10, 2921 (1969) [10, 3681 (1968)]

KRINCHIK, G. S.
Theory of Domain Structure of "Supercritical" Permalloy Films. (T) G. S. Krinchik, E. E. Chepurova, and A. N. Verkhozin. 10, 190 (1968) [10, 253 (1968)]

KRISTOFEL', N. N.
Lattice Distortion and Energies of Bonds between Ti^+ Centers and Other Anions in Alkali-Halide Crystals. (T) N. N. Kristofel' and V. N. Salomatov. 10, 1749 (1969) [10, 2227 (1968)]
Field-Dependence of Soft Ferroelectric Mode Frequencies. (T) P. I. Konsin and N. N. Kristofel'. 10, 1773 (1969) [10, 2250 (1968)]
Lattice Distortion and Energies of Bonds between Ti^+ Centers and Other Light Anions in NaCl-Type Crystals. (E) N. N. Kristofel' and V. N. Salomatov. 10, 1778 (1969) [10, 2255 (1968)]

KRIVENKO, L. F.
Irreversible Losses Arising during Repeated Back-and-Forth Motion of Dislocations. (E) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 10, 2342 (1969) [10, 2968 (1968)]

KRIVNOV, V. Ya.
High-Temperature Asymptotes of the Solution to the Ising Problem with Arbitrary Interaction between Particles. (T) V. M. Zadvernyuk and V. Ya. Krivnov. 10, 140 (1968) [10, 188 (1968)]

KRIVOGLAZ, M. A.
Damping and Dispersion of Electric and Magnetic Oscillations in a Two-Phase Mixture. (T) S. Ya. Gegusina and M. A. Krivoglaz. 10, 1180 (1968) [10, 1492 (1968)]
The Fine Structure of the Electron-Vibrational Spectrum of Extrinsic Absorption or Emission of Light Due to the Interaction of Electrons with Localized Modes. (T) K. V. Korsak and M. A. Krivoglaz. 10, 1952 (1969) [10, 2488 (1968)]
Effects Associated with a Defect-Enriched Layer near a Boundary or in a Thin Film of a Nonmetallic Crystal. (T) M. A. Krivoglaz. 10, 2645 (1969) [10, 3348 (1968)]

KRIVOKHATSKII, A. S.
Mössbauer Spectrum of Np^{237} after Alpha Decay of Am^{241} in a Thorium Lattice. (E) B. M. Aleksandrov, A. V. Kalyamin, A. S. Krivokhatskii, B. G. Lur'e, A. N. Murin, and Yu. F. Romanov. 10, 1494 (1968) [10, 1896 (1968)]

KRIVOSHCHEKOV, G. V.
A Phase Method for Measuring Temperature of Some Anisotropic Crystals. (E) G. V. Krivoshchekov, S. I. Marennikov, and Yu. N. Polivanov. 10, 756 (1968) [10, 953 (1968)]

KRIZHANSKII, L. M.
Isomeric Shift of Sn^{119} Nuclei in Cu-Sn Alloys. (E) V. N. Bykov, L. M. Krizhanskii, B. I. Rogozev, I. I. Rudnev, and A. E. Fedorovskii. 10, 2267 (1969) [10, 2869 (1968)]

KROKHMAL', A. P.
Absorption Spectra of Exciton-Impurity Complexes in Silicon Carbide. (E) I. S. Gorban', A. P. Krokhmal', and S. N. Rud'ko. 10, 312 (1968) [10, 396 (1968)]

KROPOTOV, V. S.
EPR of Some Iron-Group Ions in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 262 (1968) [10, 325 (1968)]
EPR Spectrum of Ti^{3+} in SrF_2 and Cu^{2+} in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 2722 (1969) [10, 3438 (1968)]

KRUCHININ, A. U.
Decomposition of a Solid Solution of Antimony in Heavily-Doped Silicon. (E) V. M. Al'tshuller, L. I. Zhestkova, A. U. Kruchinin, and S. V. Rychkova. 10, 2017 (1969) [10, 2556 (1968)]

KRUGLOV, V. I.
Investigation of the Band Structure of Amorphous As_2Se_3 by an Ultrasoft X-Ray Spectroscopy Method. (E) V. I. Kruglov and T. M. Zimkina. 10, 170 (1968) [10, 226 (1968)]

KRUPSKII, I. N.
Thermal Conductivity of Solid Methane. (E) V. G. Manzhelii and I. N. Krupskii. 10, 221 (1968) [10, 284 (1968)]

KSENDOV, S. Ya.
Concentration Dependence of the Diffusion Coefficient of Zinc in Indium Arsenide. (E) B. I. Boltaks, S. Ya. Ksendzov, and S. I. Rembeza. 10, 2186 (1969) [10, 2778 (1968)]

KSENDZOV, Ya. M.
Absorption Spectrum of MnO Single Crystals. (E) R. N. Iskenderov, I. A. Drabkin, L. T. Emel'yanova, and Ya. M. Ksendzov. 10, 2031 (1969) [10, 2573 (1968)]

Photoconductivity of Single Crystals of MnO. (E/T) I. A. Drabkin, L. T. Emel'yanova, R. N. Iskenderov, and Ya. M. Ksendzov. 10, 2428 (1969) [10, 3082 (1968)]

KUCHEROV, I. Ya.
Excitation of Lamb Waves in CdS Single Crystals. (E) I. Ya. Kucherov and I. V. Ostrovskii. 10, 2216 (1969) [10, 2814 (1968)]
Amplification of Lamb Waves in CdS. (E) I. Ya. Kucherov and I. V. Ostrovskii. 10, 2767 (1969) [10, 3483 (1968)]

KUCHNEV, V. I.
Thermal Expansion of Crystalline Krypton near the Triple Point. (E) V. G. Gavrilko, V. G. Manzhelii, V. I. Kuchnev, and A. M. Tolkachev. 10, 2524 (1969) [10, 3182 (1968)]

KUDINOV, E. K.
Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]

KUDINOVA, L. T.
Electric and Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$. (E) A. A. Berezhnoi, V. N. Bukhman, L. T. Kudinova, and I. E. Myl'nikova. 10, 192 (1968) [10, 255 (1968)]

KUDRYAVTSEVA, N. V.
Zero-Slope Points in Crystals. (T) N. V. Kudryavtseva. 10, 1280 (1968) [10, 1616 (1968)]

KUDYKINA, T. A.
Exciton States in Alkali-Halide Crystals. (T) T. A. Kudykina and K. B. Tolpygo. 10, 1608 (1969) [10, 2049 (1968)]

KUDZIN, A. Yu.
Photodielectric Effect in SbSI Single Crystals. (E) A. Yu. Kudzin, A. N. Sukhinskii, and R. V. Oginov. 10, 1252 (1968) [10, 1577 (1968)]
Dielectric and Elastic Properties of Single Crystals of $BaTiO_3$–$PbTiO_3$ Solid Solutions. (E/T) L. K. Bunina and A. Yu. Kudzin. 10, 2496 (1969) [10, 3156 (1968)]

KUKSENKO, V. S.
Investigation of the Density of Layers Separating Crystallites in Oriented Polymers. (E) V. S. Kuksenko and A. I. Slutsker. 10, 657 (1968) [10, 838 (1968)]

KULEEV, V. G.
Rotation of Plane of Polarization and Appearance of Ellipticity in Reflection of Ultrasonic Waves from Magnetically Polarized Metals and Ferrodielectrics. (T) K. B. Vlasov and V. G. Kuleev. 10, 1627 (1969) [10, 2076 (1968)]

KULIK, L. N.
Reflection Spectra of Rochelle Salt Crystals in the Vacuum Ultraviolet Range. (E) V. N. Vishnevskii, L. N. Kulik, and N. A. Romanyuk. 10, 217 (1968) [10, 280 (1968)]

KUMAKHOV, M. A.
Anomalous Penetration of Charged Particles through a Crystal. (T) M. A. Kumakhov. 10, 2254 (1969) [10, 2854 (1968)]

KUNIN, I. A.
Interaction of Point Defects Taking Account of Volume Dispersion. (T) V. G. Kosilova, I. A. Kunin, and É. G. Sosnina. 10, 291 (1968) [10, 367 (1968)]
Dislocation Interactions Taking Spatial Dispersion into Account. (T) V. E. Vdovin and I. A. Kunin. 10, 297 (1968) [10, 375 (1968)]

KUNIN, V. Ya.
Electrical Conductivity of Silicon Monoxide Thin Films. (E/T) V. Ya. Kunin, V. V. Pogulyaev, and A. N. Tsikin. 10, 2023 (1969) [10, 2564 (1968)]

KUNTSEVICH, S. P.
Magnetostriction of $Zn_2Ba_2Fe_{12}O_{22}$. (E/T) S. P. Kuntsevich, Yu. A. Mamalui, and A. S. Mil'ner. 10, 2780 (1969) [10, 3495 (1968)]

KURAKINA, L. A.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Boikova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

KURBATOV, L. V.
Phenomenological Theory of Magnetic Resonance in a Magnetoelastic Medium Having Two Sublattices. (T) L. V. Kurbatov and V. K. Gurylev. 10, 1201 (1968) [10, 1519 (1968)]

KURKIN, I. N.
Paramagnetic Resonance and Spin-Lattice Relaxation of Er^{3+} and Tb^{3+} Ions in the Crystal Lattice of $CaWO_4$. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 488 (1968) [10, 595 (1968)]
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Spin-Lattice Relaxation of Trigonal Dy^{3+} Centers and Cubic Yb^{3+} Centers. (E/T) L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin. 10, 843 (1968) [10, 1065 (1968)]
Paramagnetic Resonance and Spin-Lattice Relaxation of Yb^{3+} Ions in PbF_2 Crystals. (E) A. A. Antipin and I. N. Kurkin. 10, 994 (1968) [10, 1248 (1968)]
Spin-Lattice Relaxation of Ce^{3+} and Yb^{3+} Ions in Single Crystals of $CaWO_4$ and $PbMoO_4$. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 1136 (1968) [10, 1433 (1968)]

KURKIN, M. I.
Theory of Nuclear Magnetic Resonance Susceptibility of Magnetic Substances. (T) E. A. Turov and M. I. Kurkin. 10, 2551 (1969) [10, 3222 (1968)]

KUSKOVA, T. V.
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, F. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1969) [10, 3060 (1968)]

KUTASOV, V. A.
Effect of the Complex Valence Band of Sb_2Te_3 on Thermal and Electrical Properties. (E) I. A. Smirnov, A. A. Andreev, and V. A. Kutasov. 10, 1403 (1968) [10, 1782 (1968)]

KUZ'MENKO, P. P.
Range of Wavelengths Causing the Photomechanical Effect. (E) P. P. Kuz'menko, N. N. Novikov, and N. Ya. Gorid'ko. 10, 109 (1968) [10, 148 (1968)]

KUZ'MINA, I. P.
Electroluminescence of Single Crystals of Sodium-Zinc Germanate in a Constant Electric Field. (E) K. A. Verkhovskaya, I. P. Kuz'mina, A. N. Lobachev, and V. M. Fridkin. 10, 1504 (1968) [10, 1906 (1968)]

KUZNETSOVA, L. I.
A New Crystal with a Large Electrooptical Effect. (E) A. S. Vasilevskaya, L. I. Kuznetsova, I. S. Rez, and A. S. Sonin. 10, 733 (1968) [10, 928 (1968)]

LADYZHINSKII, Yu. P.
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) L. E. Blagoskionskaya, E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]

LAIKHTMAN, B. D.
Influence of Redistribution of the Electric Field on the Amplification of Acoustic Waves in Semiconductors. (T) V. L. Gurevich, R. Katilyus, and B. D. Laikhtman. 10, 2347 (1969) [10, 2975 (1968)]

LAI KIM-T'EN
Some Absorption Properties of Colored Alkali-Halide Crystals Containing Impurities. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2218 (1969) [10, 2816 (1968)]
The Luminescence of KCl Crystals Containing Quasicolloidal Potassium Centers. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2995 (1969) [10, 3756 (1968)]

LANG, I. G.
Theory of the Mobility of Small Polarons. (T) I. G. Lang. 10, 1873 (1969) [10, 2381 (1968)]

LAPOVOK, B. L.
Ferromagnetic Resonance in Lithium Ferrite-Aluminate Crystals. (E) Yu. M. Yakovlev, É. V. Rubal'skaya, and B. L. Lapovok. 10, 2301 (1969) [10, 2909 (1968)]

LARKIN, A. I.
Effect of Fluctuations on the Properties of a Superconductor above the Critical Temperature. (T) L. G. Aslamazov and A. I. Larkin. 10, 875 (1968) [10, 1104 (1968)]

LAZEBNIK, I. M.
Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]

LEBED', B. M.
Losses Due to the Excitation and Propagation of Magnetoelastic Waves in a Nonuniform Field. (E/T) S. A. Mironov, A. G. Gurevich, K. V. Shevlyagin, and B. M. Lebed'. 10, 1408 (1968) [10, 1788 (1968)]
Excitation and Amplification of Magnetoelastic Waves. (E/T) K. V. Shevlyagin, S. A. Mironov, A. G. Gurevich, and B. M. Lebed'. 10, 1852 (1969) [10, 2353 (1968)]

LEBEDEV, V. P.
Electron-Microscope Investigation of the Effect of the Load-Application Rate on the Structure of Polycrystalline Nickel. (E) I. A. Gindin, V. P. Lebedev, I. M. Neklyudov, and I. I. Bobonets. 10, 1738 (1969) [10, 2216 (1968)]

LEBEDEVA, V. N.
Visualization of Color Centers in Alkali-Halide Crystals. (E) G. I. Distler, V. N. Lebedeva, and V. V. Moskvin. 10, 2774 (1969) [10, 3489 (1968)]

LEDNEVA, T. M.
The Influence of Exchange Interaction on the Ordering of Holmium Ions in Orthoferrites on the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]

LEIMAN, V. I.
Influence of an Electric Field on Monomolecular and Dimolecular Recombination in Luminescent Ionic Crystals. (E) V. P. Denks and V. I. Leiman. 10, 1426 (1968) [10, 1812 (1968)]

LEMANOV, V. V.
Electric Field Gradients at Atomic Nuclei in Elastically Deformed $A^{III}B^{V}$ Type Crystals. (E/T) V. L. Bogdanov and V. V. Lemanov. 10, 159 (1968) [10, 212 (1968)]
Quadrupole Relaxation and Chemical Shift in $A^{III}B^{V}$ Crystals. (E) V. L. Bogdanov and V. V. Lemanov. 10, 223 (1968) [10, 286 (1968)]
Nuclear Magnetic Resonance in Lithium Niobate Crystals. (E) V. L. Bogdanov, V. V. Lemanov, V. P. Klyuev, and S. A. Fedulov. 10, 886 (1968) [10, 1118 (1968)]
Excitation and Propagation of Longitudinal Elastic Waves with Frequencies from 200 to 2000 MHz in Lithium Niobate Crystals. (E) V. V. Lemanov, A. B. Sherman, G. A. Smolenskii, N. B. Angert, and V. P. Klyuev. 10, 1357 (1968) [10, 1720 (1968)]
Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]
Frequency Dependence of Attenuation of Elastic Waves in $Y_3Fe_5O_{12}$ Single Crystals. (E) V. V. Lemanov and A. V. Pavlenko. 10, 1949 (1969) [10, 2484 (1968)]

LENSKAYA, S. V.
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]

LEONIDOVA, G. G.
Influence of an Electric Field on the Ferroelectric Phase Transition in Triglycine Sulfate at High Pressures. (E) G. G. Leonidova and N. P. Netesova. 10, 1985 (1969) [10, 2526 (1968)]

LEONT'EVA, A. V.
Creep of Crystalline Methane. (E) D. N. Bol'shutkin, L. I. Borisova, and A. V. Leont'eva. 10, 1248 (1968) [10, 1572 (1968)]

LEVANYUK, A. P.
Anomalous Sound Absorption near the Curie Points of Uniaxial Ferroelectrics. (T) A. P. Levanyuk, K. A. Minaeva, and B. A. Strukov. 10, 1919 (1969) [10, 2443 (1968)]

LEVINSON, I. B.
Cutoff of Dissipative Effects in Multivalley Semiconductors. (T) I. I. Vosilyus and I. B. Levinson. 10, 1158 (1968) [10, 1462 (1968)]

LIBOV, V. S.
Symmetry of Impurity Ions of ClO_4^- in Alkali Halide Crystals at Different Temperatures. (E) E. K. Galanov and V. S. Libov. 10, 2934 (1969) [10, 3693 (1968)]

LIFANOV, Yu. S.
Instability of Nonlinear Ferromagnetic Resonance. (E) Yu. S. Lifanov, Ya. A. Moncosv, and V. V. Surin. 10, 2467 (1969) [10, 3126 (1968)]

LIKHACHEV, V. A.
Breakdown in Alkali-Halide Crystals Caused by Laser Radiation. (E) N. I. Alekseev, N. V. Volkova, V. A. Likhachev, and L. M. Shestopalov. 10, 1890 (1969) [10, 2403 (1968)]

LIKHACHEV, V. M.
Thermal Radiation from Transparent Dielectrics During Their Fracture under the Action of Laser Light. (E) V. M. Likhachev, V. M. Salmanov, and I. D. Yaroshetskii. 10, 227 (1968) [10, 290 (1968)]

LIKHTER, A. I.
Determination of the Number of Carriers in Pyrolytic Graphite under Pressure. (E) V. V. Kechin, A. I. Likhter, and G. N. Stepanov. 10, 987 (1968) [10, 1242 (1968)]

LISIN, Yu. D.
Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigaitis, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]

LISOVSKII, F. V.
Some Features of the Mandel'shtam-Brillouin Spin Effect in Ferromagnetic Crystals. (T) F. V. Lisovskii. 10, 500 (1968) [10, 636 (1968)]
Spin Waves in a Medium Having Space-Time Periodicity. (T) N. N. Kiryukhin and F. V. Lisovskii. 10, 556 (1968) [10, 709 (1968)]

LITOVKINA, L. P.
EPR of Impurity Ions in Single Crystals of Diaspore α-AlOOH. (E/T) I. A. Gavrilov, L. P. Litovkina, and M. L. Meil'man. 10, 2177 (1969) [10, 2765 (1968)]

LITVIN, Yu. A.
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]

LIVANOVA, L. P.
Spectrum of Gd^{3+} Impurity Centers in PbF_2 Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]
EPR of Some Iron-Group Ions in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 262 (1968) [10, 325 (1968)]
Paramagnetic Resonance and Spin Lattice Relaxation of Tb^{3+} Ions in SrF_2 Single Crystals. (T/E) A. A. Antipin, L. D. Livanova, and L. Ya. Shekun. 10, 1025 (1968) [10, 1286 (1968)]
Luminescence Spectra of MeF_2 Single Crystals Activated by Erbium. (E) I. B. Aizenberg, L. D. Livanova, I. G. Saitkulov, and A. L. Stolov. 10, 1595 (1969) [10, 2030 (1968)]
EPR Spectrum of Ti^{3+} in SrF_2 and Cu^{3+} in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 2722 (1969) [10, 3438 (1968)]

LOBACHEV, A. N.
Electroluminescence of Single Crystals of Sodium-Zinc Germanate in a Constant Electric Field. (E) K. A. Verkhovskaya, I. P. Kuz'mina, A. N. Lobachev, and V. M. Fridkin. 10, 1504 (1968) [10, 1906 (1968)]

LOBACHEV, V. P.
Angular Dependence of the Cyclotron-Resonance for Hot Carriers in Germanium. (E/T) D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak. 10, 406 (1968) [10, 518 (1968)]

LOMAKINA, G. A.
Diffusion of Beryllium in Silicon Carbide. (E) Yu. P. Maslakovets, E. N. Mokhov, Yu. A. Vodakov, and G. A. Lomakina. 10, 634 (1968) [10, 809 (1968)]
Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]

LOMOVA, L. G.
Spontaneous Polarization of Antiferroelectric Ammonium Dihydrogen Phosphate. (E) L. G. Lomova and A. S. Sonin. 10, 1241 (1968) [10, 1565 (1968)]

LOSKUTOV, K. N.
Quenching of Photoconductivity of AgBr Single Crystals by the Constant Background Illumination Method. (E) K. N. Loskutov and P. V. Meiklyar. 10, 551 (1968) [10, 703 (1968)]

LUBENETS, S. V.
Mobility and Interaction of Dislocations with Impurities in KCl:Ba^{2+} Crystals. (E) S. V. Lubenets and V. I. Startsev. 10, 15 (1968) [10, 22 (1968)]
Temperature Dependence of Yield Point and Dislocation Mobility in KCl(Ba^{2+}) Crystals. (T) S. V. Lubenets and I. G. Novikova. 10, 2256 (1969) [10, 2857 (1968)]

LUBYANSKII, G. A.
Radical-Recombination Luminescence of Boron Nitride. (E) G. A. Lubyanskii, V. V. Styrov, and V. A. Sokolov. 10, 2653 (1969) [10, 3359 (1968)]

LUDER, V. V.
Evaporation Kinetics of GaAs. (E) S. A. Aitkhozhin, S. A. Semiletov, and V. V. Luder. 10, 1005 (1968) [10, 1256 (1968)]

LUGOVOI, V. N.
Induced Raman Scattering in Calcite. (T/E) B. M. Ataev and V. N. Lugovoi. 10, 1566 (1969) [10, 1991 (1968)]

LUKANTSEVER, Yu. L.
Thermal Destruction of F Centers and Dielectric Losses in NaCl and KCl Crystals. (E) Sh. I. Ismailov, Yu. N. Evstifeev, and Yu. L. Lukantsever. 10, 1322 (1968) [10, 1674 (1968)]

LUKIRSKII, D. P.
Optical Absorption in LaSb. (E) E. V. Goncharova, V. P. Zhuze, and D. P. Lukirskii. 10, 1784 (1969) [10, 2262 (1968)]

LUK'YANOVICH, V. M.
Nucleation Centers of Gold on NaCl Crystals. (E) V. I. Trofimov and V. M. Luk'yanovich. 10, 1487 (1968) [10, 1889 (1968)]

LUNDIN, A. G.
Nuclear Magnetic Resonance of Na^{23} in Ferroelectric $NaNO_2$. (E) I. S. Vinogradova and A. G. Lundin. 10, 602 (1968) [10, 769 (1968)]
Molecular Diffusion and NMR Spectra of Solids. (T) A. G. Lundin and S. P. Gabuda. 10, 1974 (1969) [10, 2516 (1968)]

LUR'E, B. G.
State of Impurity Iron Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 728 (1968) [10, 923 (1968)]
Investigation of the Charged States of Iron in Some Cobalt Compounds Using the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 1000 (1968) [10, 1254 (1968)]
Mössbauer Spectrum of Np^{237} after Alpha Decay of Am^{241} in a Thorium Lattice. (E) B. M. Aleksandrov, A. V. Kalyamin, A. S. Krivokhatskii, B. G. Lur'e, A. N. Murin, and Yu. F. Romanov. 10, 1494 (1968) [10, 1896 (1968)]
An Investigation of the Charged States of Iron in Cobalt Oxides by the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 2066 (1969) [10, 2624 (1968)]
Reactor-Irradiated Tin Compounds Studied by the Nuclear Gamma Resonance Method. (E) A. N. Murin, B. G. Lur'e, S. I. Bondarevskii, and P. P. Seregin. 10, 2207 (1969) [10, 2803 (1968)]
Calcium Stannate – A Source for Mössbauer Measurements. (E) A. V. Kalyamin, B. G. Lur'e, G. V. Popov, and Yu. F. Romanov. 10, 2522 (1969) [10, 3180 (1968)]
Quadrupole Splitting of the Mössbauer Level of I^{129} in Iodine Dioxide. (E) Yu. S. Grushko, A. N. Murin, B. G. Lur'e, and A. V. Motornyi. 10, 2944 (1969) [10, 3704 (1968)]

LUSHCHIK, Ch. B.
Exciton Mechanism of Generation of F Centers in Defectless Parts of Ionic Crystals. (E/T) Ch. B. Lushchik, I. K. Vitol, and M. A. Élango. 10, 2166 (1969) [10, 2753 (1968)]

LUTSKII, V. N.
Some Possibilities for Investigating the Structure of Electronic Spectra Using the Quantum Size Effect. (T) V. N. Lutskii and E. P. Fesenko. 10, 2902 (1969) [10, 3661 (1968)]

LUZHKOV, V. M.
Nature of Nonequivalent Cr^{3+}-Ion Sites in $LaAlO_3$. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 10, 2759 (1969) [10, 3476 (1968)]

L'VOV, V. S.
Light Scattering near a Second-Order Phase Transition in a Dielectric Magnet. (T) V. S. L'vov. 10, 354 (1968) [10, 451 (1968)]
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]
Diffraction of Light by Ferromagnetic Domains. (T) V. S. L'vov. 10, 1287 (1968) [10, 1627 (1968)]

LYAGUSHCHENKO, R. I.
Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]
Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. (T) V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich. 10, 2309 (1969) [10, 2920 (1968)]

LYAKHOVITSKAYA, V. A.
Influence of Nonequilibrium Carrier Screening on Polarization Processes in Ferroelectric SbSI. (E) A. A. Grekov, V. A. Lyakhovitskaya, A. I. Rodin, and V. M. Fridkin. 10, 1762 (1969) [10, 2239 (1968)]

LYAPIN, V. G.
X-Ray Emission Spectra and the Complex Hole-Band Structure in Crystals Having the Sphalerite and Diamond Structure. (T) V. G. Lyapin and K. B. Tolpygo. 10, 1879 (1969) [10, 2390 (1968)]

LYASHCHENKO, G. A.
Effect of Charged Defects on the Breakdown of Thin Dielectrics. (E) V. F. Korzo and G. A. Lyashchenko. 10, 2665 (1969) [10, 3374 (1968)]

LYASHENKO, N. I.
Temperature Dependence of the Spontaneous Radiation of Gadolinium Ferrite. (E) N. I. Lyashenko and L. L. Stakhurskii. 10, 1498 (1968) [10, 1900 (1968)]

LYUBIMOV, V. N.
Magnetoelectric Effect and Electromagnetic Waves in Crystals. (T) V. N. Lyubimov and L. Ya. Karpov. 10, 2787 (1969) [10, 3502 (1968)]

LYUBUTIN, I. S.
Effective Magnetic Fields at Fe^{57} and Sn^{119} Nuclei in Ferrite Garnets with High Concentrations of Nonmagnetic Sn^{4+} Ions. (E) I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii. 10, 419 (1968) [10, 534 (1968)]
The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]

LYUBUTINA, L. G.
De Haas-van Alphen Effect in Bi–Sb–Pb Alloys. (E) L. G. Lyubutina. 10, 55 (1968) [10, 77 (1968)]

LYUZE, L. L.
Current Instability in n-Type Germanium in Crossed Electric and Magnetic Fields. (E) L. L. Lyuze, A. V. Zav'yalov, and G. F. Karlova. 10, 2195 (1969) [10, 2790 (1968)]

MACHUEV, V. I.
The Thermal Conductivity of Indium Telluride. (E) V. I. Fedorov and V. I. Machuev. 10, 1786 (1969) [10, 2263 (1968)]

MAEVSKII, V. M.
EPR Studies of Mn^{2+} in Some II-VI Mixed Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 10, 2754 (1969) [10, 3471 (1968)]

MAGOMEDOV, Z. A.
Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]

MAKARA, V. A.
Sign Reversal of the Electromechanical Effect. (E) N. N. Novikov and V. A. Makara. 10, 2128 (1969) [10, 2704 (1968)]

MAKAROV, E. F.
Effective Magnetic Fields at Fe^{57} and Sn^{119} Nuclei in Ferrite Garnets with High Concentrations of Nonmagnetic Sn^{4+} Ions. (E) I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii. 10, 419 (1968) [10, 534 (1968)]

Investigation of the Magnetic Ordering of $CuFe_2S_3$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskii, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]

MAKAROV, V. V.
Luminescence of SiC Single Crystals Bombarded with Electrons, Hydrogen Ions, and Deuterium Ions of Energies up to 20 keV. (E) V. V. Makarov and N. N. Petrov. 10, 154 (1968) [10, 205 (1968)]

Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]

MAKARYUNAS, K. V.
Investigation of the Quadrupole Coupling of I^{127} Nuclei in Tellurium Crystals. (E) K. V. Makaryunas and É. K. Makaryunene. 10, 514 (1968) [10, 650 (1968)]

MAKARYUNENE, É. K.
Investigation of the Quadrupole Coupling of I^{127} Nuclei in Tellurium Crystals. (E) K. V. Makaryunas and É. K. Makaryunene. 10, 514 (1968) [10, 650 (1968)]

MAKLAKOV, A. I.
The Effect of Paramagnetic Centers on the NMR Spectra of Polymers Having Conjugated Bonds and Their Complexes. (E) A. I. Makalov, K. A. Gol'dgammer, V. I. Shepelev, and B. G. Tarasov. 10, 2704 (1969) [10, 3421 (1968)]

MAKSAKOV, B. I.
Changes in the Volume of the Fluorite Lattice Due to Point Defects. (E) M. S. Tyutin, T. I. Nikitinskaya, B. I. Maksakov, and G. M. Zakharov. 10, 1496 (1968) [10, 1898 (1968)]

MAKSIMOVA, T. I.
Temperature Dependence of the High-Frequency Band Width of Crystal and Local Vibrations. (E/T) A. A. Klochikhin, T. I. Maksimova, and A. I. Stekhanov. 10, 2617 (1969) [10, 3312 (1968)]

MALDUTIS, É. K.
Two-Photon Laser-Induced Luminescence Excitation in Scheelite-Type Crystals and Destructive Processes in Such Crystals. (E) G. M. Zverev and É. K. Maldutis. 10, 2027 (1969) [10, 2565 (1968)]

MALEEV, S. V.
Properties of an Antiferromagnet with Impurities Located Symmetrically with Respect to the Sublattices. (T) S. V. Maleev and S. S. Stamenkovich. 10, 590 (1968) [10, 754 (1968)]

MALINENKO, I. A.
Quenching Defects and Hardening of Polycrystalline Copper. (E) I. A. Malinenko and O. N. Shivrin. 10, 2507 (1969) [10, 3166 (1968)]

MALKIN, B. Z.
Optical Spectra of Ni^{2+} Ions in CaF_2 and CdF_2. (E/T) E. I. Zoroatskaya, B. Z. Malkin, A. L. Stolov, and Zh. S. Yakovleva. 10, 255 (1968) [10, 320 (1968)]

MAL'TSEV, E. I.
Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]

MALYSH, G. K.
Diffusion of Zinc in Gallium Arsenide Containing a High Donor Concentration. (E) G. K. Malysh. 10, 246 (1968) [10, 310 (1968)]

MAMADALIEV, M.
Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. (E) F. Gaibullaev, M. Mamadaliev, A. R. Regel', and Kh. Khusanov. 10, 2516 (1969) [10, 3174 (1968)]

MAMALUI, A. A.
Determination of the Energy of Formation of Vacancies in Nickel by the Technique of Quenching in Liquid Helium. II. (E) A. A. Mamalui, T. D. Ositinskaya, V. A. Pervakov, and V. I. Khomkevich. 10, 2290 (1969) [10, 2892 (1968)]

MAMALUI, Yu. A.
Magnetic Properties of Indium-Substituted Cobalt Ferroxplana Ferrite. (E) N. N. Efimova, Yu. A. Mamalui, and A. A. Murakhovskii. 10, 1271 (1968) [10, 1604 (1968)]

Magnetostriction of $Zn_2Ba_2Fe_{12}O_{22}$. (E/T) S. P. Kuntsevich, Yu. A. Mamalui, and A. S. Mil'ner. 10, 2780 (1969) [10, 3495 (1968)]

MANDEL', V. S.
Determining the Vacancy Concentration in an Alkali Halide Crystal Containing a Divalent Impurity. (E) V. S. Mandel'. 10, 2530 (1969) [10, 3188 (1968)]

MANDROSOV, V. I.
Kinetic Properties of Metals in an Electromagnetic Field. (T) V. I. Mandrosov. 10, 810 (1968) [10, 1025 (1968)]

MANENKOV, A. A.
Optical Homogeneity of Ruby Crystals and Its Relation to the Radiation Divergence of Lasers. (E) Yu. K. Danileiko, A. A. Manenkov, A. M. Prokhorov, and V. Ya. Khaimov-Mal'kov. 10, 2154 (1969) [10, 2738 (1968)]

MANZHELII, V. G.
Thermal Conductivity of Solid Methane. (E) V. G. Manzhelii and I. N. Krupskii. 10, 221 (1968) [10, 284 (1968)]

Thermal Expansion of Crystalline Krypton near the Triple Point. (E) V. G. Gavriiko, V. G. Manzhelii, V. I. Kuchnev, and A. M. Tolkachev. 10, 2524 (1969) [10, 3182 (1968)]

MARCHENKO, E. I.
Nonlinearity of the Polarization of Rochelle Salt in Strong Electric Fields. (E) V. V. Gladkii, E. I. Marchenko, and A. S. Sonin. 10, 375 (1968) [10, 478 (1968)]

MARCHIK, I. I.
Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]

MARENNIKOV, S. I.
A Phase Method for Measuring Temperature of Some Anisotropic Crystals. (E) G. V. Krivoshchekov, S. I. Marennikov, and Yu. N. Polivanov. 10, 756 (1968) [10, 953 (1968)]

MARFUNIN, A. S.
Investigation of the Magnetic Ordering of $CuFe_2S_3$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskii, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]

MARGVELASHVILI, I. G.
Motion of a Dislocation Loop in an Ionic Crystal in an External Electric Field. (T) I. G. Margvelashvili, R. A. Polyan, and Z. K. Saralidze. 10, 2475 (1969) [10, 3134 (1968)]

MARKEVICH, I. V.
Formation of New Local Centers in CdS Single Crystals in the Presence of Free Electrons and Holes. (E) N. E. Korsunskaya, I. V. Markevich, and M. K. Sheinkman. 10, 409 (1968) [10, 522 (1968)]

MARKOV, Yu. F.
Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

Longitudinal Optical Vibrations in the Spectrum of NaCl Single Crystals. (E) A. I. Stekhanov, Yu. F. Markov, and P. L. Smolyanskii. 10, 2744 (1969) [10, 3461 (1968)]

MARTYNENKO, T. P.
Mechanism of Sputtering of Solids. (E) B. M. Gurmin, T. P. Martynenko, and Yu. A. Ryzhov. 10, 324 (1968) [10, 411 (1968)]
Sputtering of Binary Compounds by Low-Energy Li^+ Ions. (E) T. P. Martynenko. 10, 2274 (1969) [10, 2876 (1968)]

MARTYNENKO, Yu. V.
Correlated Chains of Atomic Collisions in [100] Directions in Cubic Face-Centered Crystals. (T) N. S. Dinyaeva, Yu. V. Martynenko, and Yu. A. Ryzhov. 10, 2271 (1969) [10, 2873 (1968)]

MASHKOV, S. A.
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]

MASHOVETS, D. V.
The Appearance of a Second Conductivity Zone of GaSb in the Shubnikov-De Haas Effect. (E/T) D. V. Mashovets, R. V. Parfen'ev, and V. S. Vekshina. 10, 2700 (1969) [10, 3417 (1968)]

MASLAKOVETS, Yu. P.
Diffusion of Beryllium in Silicon Carbide. (E) Yu. P. Maslakovets, E. N. Mokhov, Yu. A. Vodakov, and G. A. Lomakina. 10, 634 (1968) [10, 809 (1968)]

MATSOKIN, V. P.
Investigation of Dislocation Processes during Creep of Deformed NaCl and KCl Single Crystals during Heating. (E/T) Ya. E. Geguzin and V. P. Matsokin. 10, 1869 (1969) [10, 2376 (1968)]

MATVEENKO, A. V.
Detection of Shubnikov-de Haas Oscillations in n-Type GaAs. (E) A. V. Matveenko, G. D. Mel'nikov, and R. V. Parfen'ev. 10, 2243 (1969) [10, 2842 (1968)]

MATVEEV, G. A.
Short-Range Order in Y–Ca–Fe–V Garnets. (E) G. A. Matveev and V. P. Polyakov. 10, 2566 (1969) [10, 3243 (1968)]

MATVEEV, V. N.
Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]

MATYUSHENKO, L. A.
Hall Effect and Electrical Resistivity of $CrTe_{1-x}Sb_x$ Alloys. (E) N. P. Grazhdankina, L. A. Matyushenko, and Yu. S. Bersenev. 10, 527 (1968) [10, 670 (1968)]

MATYUSHKIN, É. V.
Amplification of Luminescence in Antiferromagnetic Crystals of MnF_2 and $RbMnF_3$ in a Magnetic Field. (E/T) É. V. Matyushkin and N. N. Rozhitskii. 10, 1736 (1969) [10, 2214 (1968)]

MEDNIS, P. M.
Second-Order Nonlinear Conductivity for Band Electrons. (T) V. N. Genkin and P. M. Mednis. 10, 1 (1968) [10, 3 (1968)]

MEDVEDEV, E. S.
Nonadiabatic Transitions in One-Dimensional Periodic Systems. (T) E. S. Medvedev and Y. I. Osherov. 10, 1968 (1969) [10, 2509 (1968)]

MEDVEDEV, S. A.
X-Ray Study of the Phase Transition in Nb_3Sn. (E) S. A. Medvedev, K. V. Kiseleva, and V. V. Mikhailov. 10, 584 (1968) [10, 746 (1968)]

MEDVEDEV, V. K.
Investigation of Sodium Adsorption on the Surface of a Tungsten Single Crystal in a Field-Emission Microscope. (E) E. V. Klimenko and V. K. Medvedev. 10, 1562 (1969) [10, 1986 (1968)]
Absorption of Barium on the (110) Face of a Tungsten Single Crystal. (E) V. K. Medvedev. 10, 2752 (1969) [10, 3469 (1968)]

MEDVEDEV, V. M.
Influence of an Electric Field on Phonon Lines and the Point Symmetry of Various Electron Coloration Centers of NaF. (E) V. N. Medvedev and O. D. Gavrilov. 10, 2982 (1969) [10, 3742 (1968)]

MEIKLYAR, P. V.
Quenching of Photoconductivity of AgBr Single Crystals by the Constant Background Illumination Method. (E) K. N. Loskutov and P. V. Meiklyar. 10, 551 (1968) [10, 703 (1968)]

MEIL'MAN, M. L.
EPR of Impurity Ions in Single Crystals of Diaspore α-AlOOH. (E/T) I. A. Gavrilov, L. P. Litovkina, and M. L. Meil'man. 10, 2177 (1969) [10, 2765 (1968)]
Pseudo-Stark Splitting of EPR Lines of Cr^{3+} in α-$MgMoO_4$. (E) V. G. Kozlov and M. L. Meil'man. 10, 2919 (1969) [10, 3679 (1968)]

MEISNER, L. B.
Calculation of the Ferroelectric Vibration Mode for Single Crystals of $SrTiO_3$ and $BaTiO_3$. (T/E) L. B. Meisner and A. S. Sonin. 10, 438 (1968) [10, 557 (1968)]
Electrooptic Effect in the Ionic Model of a Barium Titanate Single Crystal. (T/E) L. B. Meisner. 10, 741 (1968) [10, 938 (1968)]
Quadratic Electrooptical Effect in Strontium Titanate Single Crystals. (T/E) L. B. Meisner and A. S. Sonin. 10, 998 (1968) [10, 1252 (1968)]

MEKHTIEV, M. A.
Interaction between Plasma Oscillations and Phonons. (T) M. A. Mekhtiev. 10, 610 (1968) [10, 779 (1968)]
Exciton Annihilation at a Metal-Dielectric Interface. (T) V. M. Agranovich, Yu. V. Konobeev, and M. A. Mekhtiev. 10, 1383 (1968) [10, 1754 (1968)]
The Decay of a Volume and Surface Plasmon with the Excitation of an Electron-Hole Pair. (T) V. M. Agranovich and M. A. Mekhtiev. 10, 2304 (1969) [10, 2913 (1968)]

MELIKIYA, M. G.
Electron-Spin Correlation Function in a Diamagnet Containing Paramagnetic Impurities. (T) M. G. Melikiya. 10, 673 (1968) [10, 858 (1968)]

MEL'NIK, P. V.
A Comparative Study of the Energy Distribution of Secondary Electrons and Photoelectrons Excited by Soft X Rays. (E) N. G. Nakhodkin and P. V. Mel'nik. 10, 1462 (1968) [10, 1859 (1968)]

MEL'NIKOV, G. D.
Detection of Shubnikov-de Haas Oscillations in n-Type GaAs. (E) A. V. Matveenko, G. D. Mel'nikov, and R. V. Parfen'ev. 10, 2243 (1969) [10, 2842 (1968)]

MEL'NIKOV, N. I.
Silver Atoms Stabilized in Inorganic Glasses. (E) R. A. Zhitnikov and N. I. Mel'nikov. 10, 80 (1968) [10, 108 (1968)]

MEN', A. N.
Impurity Effect in the Theory of Indirect Exchange. (T) F. I. Muftakhova, A. N. Men', and G. A. Smolenskii. 10, 315 (1968) [10, 399 (1968)]

MENSTER, A. N.
Anisotropy of Two-Photon Absorption in Optical Excitation of CdSe Semiconductor Lasers. (E/T) A. Z. Grasyuk, I. G. Zubarev, and A. N. Mentser. 10, 427 (1968) [10, 543 (1968)]

MESHKOV, A. M.
Influence of the Polarization Charges and External Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]

MESHKOVA, G. N.
Influence of the Polarization Charges and External Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]

MICHALK, C.
Rotation-Time Loss in Polycrystalline Nickel-Iron Ferrites. (E) C. Michalk. 10, 1740 (1969) [10, 2218 (1968)]

MIKHAILOV, V. V.
X-Ray Study of the Phase Transition in Nb_3Sn. (E) S. A. Medvedev, K. V. Kiseleva, and V. V. Mikhailov. 10, 584 (1968) [10, 746 (1968)]

MIKHAILOVA, N. A.
Relaxational Polarization in Defect Solid Solutions of Perovskite-Type Ferroelectrics. (E) G. V. Bois and N. A. Mikhailova. 10, 484 (1968) [10, 616 (1968)]
Relaxational Polarization in Semiconducting Barium Titanate. (E) G. V. Bois and N. A. Mikhailova. 10, 495 (1968) [10, 630 (1968)]

MIKHAILOVSKII, I. M.
Stacking Faults in Tungsten. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. 10, 799 (1968) [10, 1012 (1968)]

MIKHEL'SON, L. M.
Theory of Second-Order Phase Transitions of the Displacive Type. (T) Yu. I. Sirotin and L. M. Mikhel'son. 10, 1450 (1968) [10, 1843 (1968)]

MIKHLIN, É. Ya.
Radiative Growth of Depleted Zones and Their Transformation into Dislocative Loops or Pores. (T) É. Ya. Mikhlin. 10, 2160 (1969) [10, 2745 (1968)]

MIL'NER, A. S.
Magnetostriction of $Zn_2Ba_2Fe_{12}O_{22}$. (E/T) S. P. Kuntsevich, Yu. A. Mamaluĭ, and A. S. Mil'ner. 10, 2780 (1969) [10, 3495 (1968)]

MIL'VIDSKII, M. G.
Some Peculiarities of the Decomposition of Supersaturated Solid Solutions of Copper in Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Osvenskii, and T. G. Yugova. 10, 2144 (1969) [10, 2724 (1968)]
Effect of Doping, As Observed in the Measurement of the Microhardness of GaSb and InSb. (E) V. B. Osvenskii, M. G. Mil'vidskii, O. G. Stolyarov, and V. S. Ivleva. 10, 2212 (1969) [10, 2809 (1968)]
Effect of Charged Additions on the Plasticity of Semiconducting $A^{III}B^{V}$ Compounds. (E) V. B. Osvenskii, O. G. Stolyarov, and M. G. Mil'vidskii. 10, 2540 (1969) [10, 3208 (1968)]

MILYAEV, V. A.
Concentration Dependence of the Spin-Lattice Relaxation Time in Ruby at Liquid Helium Temperatures. (E) V. A. Milyaev. 10, 2473 (1969) [10, 3132 (1968)]

MILYUTIN, Yu. V.
Ion-Bombardment Induced Damage in Diamond Layers. (E) V. V. Galkin, M. I. Guseva, V. V. Krasnopevtsev, and Yu. V. Milyutin. 10, 706 (1968) [10, 902 (1968)]

MINAEVA, K. A.
Anisotropy of Sound Absorption in Triglycine Sulfate (TGS) Single Crystals. (T/E) K. A. Minaeva, B. A. Strukov, and K. Varnstorff. 10, 1665 (1969) [10, 2125 (1968)]
Anomalous Sound Absorption near the Curie Points of Uniaxial Ferroelectrics. (T) A. P. Levanyuk, K. A. Minaeva, and B. A. Strukov. 10, 1919 (1969) [10, 2443 (1968)]

MINEEV, V. I.
Mechanism of the Origin of the Fine Structure of the Angular Dependence of the Secondary-Electron Emission Coefficient of Single Crystals. (E) A. P. Komar, Yu. S. Korobochko, B. D. Grachev, and V. I. Mineev. 10, 1222 (1968) [10, 1547 (1968)]
Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]

MINEEV, V. N.
Role of Dislocations in Impact Polarization of Alkali-Halide Crystals. (E) Yu. N. Tyunyaev, A. A. Urusovskaya, V. N. Mineev, and A. G. Ivanov. 10, 2683 (1969) [10, 3399 (1968)]

MININA, N. Ya.
A New Method for Determining the Dependence of the Carrier Density on Pressure in Semimetals. (T/E) N. B. Brandt, N. Ya. Minina, and Yu. A. Pospelov. 10, 1011 (1968) [10, 1268 (1968)]

MIRLIN, D. N.
Formation of Divalent Anion and Cation Impurity Complexes in KCl Crystals. (E) D. N. Mirlin and I. I. Reshina. 10, 895 (1968) [10, 1129 (1968)]
Absorption Spectrum of Vanadium Dioxide below the Semiconductor-Metal Transition Point. (E) D. N. Mirlin. 10, 2938 (1969) [10, 3697 (1968)]

MIRONOV, S. A.
Propagation Time and Excitation Mechanism of Magnetoelastic Waves in a Nonuniform Field. (T) S. A. Mironov and A. G. Gurevich. 10, 63 (1968) [10, 87 (1968)]
Losses Due to the Excitation and Propagation of Magnetoelastic Waves in a Nonuniform Field. (E/T) S. A. Mironov, A. G. Gurevich, K. V. Shevlyagin, and B. M. Lebed'. 10, 1408 (1968) [10, 1788 (1968)]
Excitation and Amplification of Magnetoelastic Waves. (E/T) K. V. Shevlyagin, S. A. Mironov, A. G. Gurevich, and B. M. Lebed'. 10, 1852 (1969) [10, 2353 (1968)]

MITCHELL, D. L.
Stimulation of Exciton Lines in a Strong Magnetic Field. (T) M. I. D'yakonov, D. L. Mitchell, and A. L. Éfros. 10, 2021 (1969) [10, 2561 (1968)]

MITIN, A. V.
Gamma-Optical Transitions Stimulated by a Laser. (T/E) A. V. Mitin. 10, 2880 (1969) [10, 3632 (1968)]

MITINA, L. P.
Anisotropy of the Paramagnetic Curie Point in Hexagonal Ferrites. (E) K. P. Belov, L. I. Koroleva, and L. P. Mitina. 10, 2329 (1969) [10, 2950 (1968)]

MITROFANOV, V. V.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

MITROFANOV, Yu. F.
Electron Nuclear Double Resonance of V^{3+} in CaF_2. (E) Yu. F. Mitrofanov, Yu. E. Pol'skiĭ, and M. L. Falin. 10, 2923 (1969) [10, 3682 (1968)]

MITSEK, A. I.
Spin Waves in Yttrium Iron Garnet Type Ferrimagnets. (T) A. I. Mitsek. 10, 1961 (1969) [10, 2500 (1968)]

MKRTCHYAN, A. R.
Investigation of the Magnetic Ordering of $CuFe_2S_3$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskiĭ, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]

MNATSAKANOV, T. T.
The Possibility of Superfluidity in Semimetals during the Dielectric Transition. (T) Yu. P. Denisov and T. T. Mnatsakanov. 10, 1465 (1968) [10, 1863 (1968)]

MOISEEV, V. A.
EPR of Mn^{2+} in the System $ZnWO_4$–$MnWO_4$. (E/T) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 10, 2046 (1969) [10, 2597 (1968)]

MOKEROV, V. G.
Investigation of the Reflection Spectra of Vanadium Dioxide Single Crystals at the Semiconductor-Metal Phase Transition. (E) V. G. Mokerov and A. V. Rakov. 10, 1231 (1968) [10, 1556 (1968)]

MOKHOV, E. N.
Diffusion of Beryllium in Silicon Carbide. (E) Yu. P. Maslakovets, E. N. Mokhov, Yu. A. Vodakov, and G. A. Lomakina. 10, 634 (1968) [10, 809 (1968)]
Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]

MOLCHANOV, V. I.
Nature of Phase Transitions in $PbCd_{0.4}W_{0.6}O_3$. (E) Yu. M. Poplavko, V. G. Tsykalov, V. I. Molchanov, and V. A. Isupov. 10, 1217 (1968) [10, 1542 (1968)]
Microwave Dielectric Dispersion of the Ferroelectric and Paraelectric Phases of Barium Titanate. (E) Yu. M. Poplavko, V. G. Tsykalov, and V. I. Molchanov. 10, 2708 (1969) [10, 3425 (1968)]

MONEVA, I. T.
Nature of the Central Spot on H_V Diffraction Patterns of Spherulites. (T) Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'. 10, 2471 (1969) [10, 3130 (1968)]

MONIN, Yu. S.
Electrodynamics of a Crystal with Fluctuating Parameters. (T) F. G. Bass, G. A. Beziashvili, and Yu. S. Monin. 10, 2822 (1969) [10, 3553 (1968)]
MONOSOV, Ya. A.
Anisotropy of the Self-Modulation of Nonlinear Ferromagnetic Resonance. (E) I. E. Dikshtein, Ya. A. Monosov, and V. V. Surin. 10, 1506 (1968) [10, 1907 (1968)]
Instability of Nonlinear Ferromagnetic Resonance. (E) Yu. S. Lifanov, Ya. A. Monosov, and V. V. Surin. 10, 2467 (1969) [10, 3126 (1968)]
MORGULIS, L. M.
Electron-Microscope Observation of Prismatic Dislocation Loops in Ge. (E) Yu. P. Kabanov, L. M. Morgulis, and Yu. A. Osip'yan. 10, 523 (1968) [10, 665 (1968)]
MOROZOV, A. I.
Transverse Acoustoelectric Effect. (E) A. I. Morozov. 10, 2844 (1969) [10, 3584 (1968)]
MOROZOV, A. M.
Investigation of Charge Compensation Mechanisms in Scheelite-Type Crystals Activated with Pr^{3+} Ions. (E) A. M. Morozov, E. G. Reut, and A. I. Ryskin. 10, 393 (1968) [10, 502 (1968)]
MOROZOV, B. N.
Optical Detection and Piezoelectric Effect in Some Electrooptical Crystals. (E) B. N. Morozov and V. M. Nesterenko. 10, 1442 (1968) [10, 1833 (1968)]
MOROZOV, E. P.
The Energy Spectrum of Gallium Arsenide Doped with Silicon. (E) Zh. I. Alferov, D. Z. Garbuzov, E. P. Morozov, I. I. Protasov, and D. N. Tret'yakov. 10, 2260 (1969) [10, 2861 (1968)]
MOROZOV, Yu. A.
Elastic Reflection of Electrons from Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 518 (1968) [10, 655 (1968)]
Angular Dependence of Secondary-Emission Characteristics of Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1246 (1968) [10, 1570 (1968)]
Angular Dependence of the Secondary Electron Emission Coefficient of Single-Crystal Silicon in the Range of Incident Electron Energy from 100 to 2000 eV. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1512 (1968) [10, 1913 (1968)]
MOROZOV, Yu. N.
The Magnetic Properties of $EuLa_2O_4$ at Low Temperatures. (E) A. A. Samokhvalov, Yu. N. Morozov, V. G. Bamburov, N. V. Volkenshtein, and T. D. Zotov. 10, 1729 (1969) [10, 2206 (1968)]
MOSINA, G. N.
Stacking Faults in Particles of a Precipitated Phase and Elastic Stresses in the Matrix of Decomposed Aluminum-Germanium Solid Solutions. (E) L. M. Sorokin and G. N. Mosina. 10, 127 (1968) [10, 171 (1968)]
MOSKALENKO, S. A.
Effects of Optical Phonons on the Shape of the Wannier-Mott Exciton Absorption Band. (T) S. A. Moskalenko, M. I. Shmigelyuk, and B. I. Chinik. 10, 279 (1968) [10, 351 (1968)]
MOSKALEV, V. V.
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]
MOSKVIN, V. V.
Visualization of Color Centers in Alkali-Halide Crystals. (E) G. I. Distler, V. N. Lebedeva, and V. V. Moskvin. 10, 2774 (1969) [10, 3489 (1968)]
MOTORNYI, A. V.
Quadrupole Splitting of the Mössbauer Level of I^{129} in Iodine Dioxide. (E) Yu. S. Grushko, A. N. Murin, B. G. Lur'e, and A. V. Motornyi. 10, 2944 (1969) [10, 3704 (1968)]
MUFTAKHOVA, F. I.
Impurity Effect in the Theory of Indirect Exchange. (T) F. I. Muftakhova, A. N. Men', and G. A. Smolenskii. 10, 315 (1968) [10, 399 (1968)]
MUL'TANOVSKAYA, O. M.
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mul'tanovskaya. 10, 397 (1968) [10, 507 (1968)]
MUKHTAROV, É. I.
Computation of the Characteristic Temperature of Naphthalene by Use of Atom-Atom Potentials. (T) A. I. Kitaigorodskii and É. I. Mukhtarov. 10, 2757 (1969) [10, 3474 (1968)]
MURADOV, S. M.
Temperature Dependence and Mechanisms of Radiative Creation of Electronic Color Centers in KCl and KCl–Ag Crystals. (E) S. M. Muradov and M. A. Élango. 10, 2548 (1969) [10, 3218 (1968)]
MURAKHONSKII, A. A.
Magnetic Properties of Indium-Substituted Cobalt Ferroxplana Ferrite. (E) N. N. Efimova, Yu. A. Mamalui, and A. A. Murakhovskii. 10, 1271 (1968) [10, 1604 (1968)]
MURIN, A. N.
State of Impurity Iron Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 728 (1968) [10, 923 (1968)]
Investigation of the Charged States of Iron in Some Cobalt Compounds Using the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 1000 (1968) [10, 1254 (1968)]
Mössbauer Spectrum of Np^{237} after Alpha Decay of Am^{241} in a Thorium Lattice. (E) B. M. Aleksandrov, A. V. Kalyamin, A. S. Krivokhatskii, B. G. Lur'e, A. N. Murin, and Yu. F. Romanov. 10, 1494 (1968) [10, 1896 (1968)]
An Investigation of the Charged States of Iron in Cobalt Oxides by the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 2066 (1969) [10, 2624 (1968)]
Reactor-Irradiated Tin Compounds Studied by the Nuclear Gamma Resonance Method. (E) A. N. Murin, B. G. Lur'e, S. I. Bondarevskii, and P. P. Seregin. 10, 2207 (1969) [10, 2803 (1968)]
Quadrupole Splitting of the Mössbauer Level of I^{129} in Iodine Dioxide. (E) Yu. S. Grushko, A. N. Murin, B. G. Lur'e, and A. V. Motornyi. 10, 2944 (1969) [10, 3703 (1968)]
MURMUZHEV, B. A.
The Nonlinear Theory of Frequency Conversion in Ferrites. (T/E) B. A. Murmuzhev and V. V. Tarasenko. 10, 2727 (1969) [10, 3443 (1968)]
MUROMTSEV, V. I.
Double Modulation Method of Measuring the Width of a Spin Packet for an Inhomogeneously Broadened EPR Line. (T) V. I. Muromtsev, S. N. Safronov, U. I. Safronova, and I. G. Akhvlediani. 10, 1167 (1968) [10, 1475 (1968)]
Investigation of the Distribution Statistics of Paramagnetic Centers Using Relaxation Parameters of Nonuniformly Broadened EPR Lines. (T) V. I. Muromtsev, V. V. Pomortsev, and V. N. Kharitonova. 10, 1933 (1969) [10, 2462 (1968)]
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]
MUZHDABA, V. M.
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]
Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]
MYL'NIKOVA, I. E.
Electric and Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$. (E) A. A. Berezhnoi, V. N. Bukhman, L. T. Kudinova, and I. E. Myl'nikova. 10, 192 (1968) [10, 255 (1968)]
Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$, a Ferroelectric with an Indistinct Phase Transition. (E) N. P. Khuchua, V. F. Bova, and I. E. Myl'nikova. 10, 194 (1968) [10, 257 (1968)]
Dielectric Properties of $Bi_4Ti_3O_{12}$ Crystals. (E) N. N. Krainik, I. E. Myl'nikova, and S. F. Kolesnichenko. 10, 198 (1968) [10, 260 (1968)]

Electrooptical Effect in $PbMg_{1/3}Nb_{2/3}O_3$ Crystals. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 365 (1968) [10, 467 (1968)]
Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{2/3}O_3$, $PbMg_{1/3}Ta_{2/3}O_3$, and $PbNi_{1/3}Nb_{2/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]
MYLOV, V. P.
Investigation of the Ferroelectric Properties of Triglycine Selenate at High Hydrostatic Pressures. (E) I. N. Polandov, V. P. Mylov, B. A. Strukov, and V. M. Varikash. 10, 1092 (1968) [10, 1377 (1968)]
The P-T Diagram of the Ferroelectric Crystal NH_4HSO_4. (E) I. N. Polandov, V. P. Mylov, and B. A. Strukov. 10, 1754 (1969) [10, 2232 (1968)]
NABATOV, V. V.
Decomposition of Several Alkali-Halide Crystals by Laser Radiation and Evaluation of Their Optical Stability. (E) L. M. Belyaev, A. N. Golovistikov, and V. V. Nabatov. 10, 2972 (1969) [10, 3733 (1968)]
NABEREZHNYKH, V. P.
Excitation of Field Splashes within Metals Via Electron Trajectory Chains in Surface-Normal Magnetic Fields. (T/E) V. P. Naberezhnykh and N. K. Dan'shin. 10, 1422 (1968) [10, 1807 (1968)]
NABOIKIN, Yu. V.
Carrier Photogeneration and Luminescence Process in Pyrene. (E) A. A. Avdeenko, T. L. Doborvol'skaya, and Yu. V. Naboikin. 10, 1254 (1968) [10, 1579 (1968)]
NABUTOVSKII, V. M.
The Resistance Anomaly of Ferromagnetic and Antiferromagnetic Metals near the Magnetic Ordering Point. (T) V. M. Nabutovskii and A. Z. Patashinskii. 10, 2462 (1969) [10, 3121 (1968)]
NADGORNYI, É. M.
Rate of Dislocation Motion in Sodium Chloride Crystals Containing Bivalent Impurities. (E) É. Yu. Gutmanas and É. M. Nadgornyi. 10, 1799 (1969) [10, 2284 (1968)]
A Statistical Treatment of the Movement of Dislocations in Crystals with Pinning Centers. (T/E) É. Yu. Gutmanas and É. M. Nadgornyi. 10, 1805 (1969) [10, 2292 (1968)]
NAGIBAROV, V. R.
Generation of Sound in the Forced Phonon Induction Mode. (T) U. Kh. Kopvillem and V. R. Nagibarov. 10, 587 (1968) [10, 750 (1968)]
NAGAEV, É. L.
The Relation between the Anomalous Behavior of the Heat Capacity and the Linear Thermal Expansion Coefficient at the Curie Point and Critical Fluctuations. (T) É. L. Nagaev. 10, 5 (1968) [10, 9 (1968)]
NAKHMANSON, M. S.
Interpretation of X-Ray Spectra. (T) V. G. Aleshin, V. P. Smirnov, and M. S. Nakhmanson. 10, 1260 (1968) [10, 1585 (1968)]
NAKHODKIN, N. G.
A Comparative Study of the Energy Distribution of Secondary-Electrons and Photoelectrons Excited by Soft X Rays. (E) N. G. Nakhodkin and P. V. Mel'nik. 10, 1462 (1968) [10, 1859 (1968)]
NASHEL'SKII, A. Ya.
Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]
NATSIK, V. D.
Dynamic Damping of Dislocations by Impurities. (T) A. M. Kosevich and V. D. Natsik. 10, 1220 (1968) [10, 1545 (1968)]
NAUMOV, A. N.
The Relative Difference in the Ionic Mobilities of Lithium Li_6^+ and Li_7^+ Isotopes in LiF Single Crystals. (T/E) V. B. Ptashnik and A. N. Naumov. 10, 690 (1968) [10, 880 (1968)]
Self-Diffusion of Li^+ Ions in Lithium Fluoride Single Crystals. (E) A. N. Naumov and V. B. Ptashnik. 10, 2950 (1969) [10, 3710 (1968)]
NAUMOVETS, A. G.
Investigation of the Structure and Work Function of Platinum Films on Tungsten and of Adsorption of Cesium on Such Films. (E) A. G. Naumovets and A. G. Fedorus. 10, 627 (1968) [10, 801 (1968)]
Electronic State of Sodium Atoms Adsorbed on a (110) Face of Tungsten. (E) E. V. Klimenko and A. G. Naumovets. 10, 1980 (1969) [10, 2522 (1968)]
Structure of Platinum Films on a (110) Face of a Tungsten Crystal. (E) A. G. Naumovets and A. G. Fedorus. 10, 2029 (1969) [10, 2570 (1968)]
NAZAROVA, M. P.
Young's Modulus of Sapphire Whiskers. (E) S. Z. Bokshtein, G. N. Zaitsev, M. P. Nazarova, and I. L. Svetlov. 10, 443 (1963) [10, 564 (1968)]
NECHAEV, Yu. S.
Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitzkii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]
NEDLIN, G. M.
Planar Effect for Helicon Waves in a Large Ferromagnetic Semiconductor. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 1745 (1969) [10, 2223 (1968)]
Electromagnetic Excitation of Magnetostatic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 2980 (1969) [10, 3740 (1968)]
NEMCHENKO, A. M.
Changes in the Dielectric Properties of Copper Diffused Zinc Sulfide Crystals. (E) V. M. Korsun' and A. M. Nemchenko. 10, 2696 (1969) [10, 3414 (1968)]
NEMNONOV, S. A.
$K\beta$ X-Ray Spectra of Fe in Iron Oxides. (E) K. M. Kolobova, S. A. Nemnonov, and E. V. Agapova. 10, 571 (1968) [10, 729 (1968)]
NESHPOR, V. S.
F Centers in Hexagonal Boron Nitride Enriched with the B^{10} Isotope. (E) M. B. Khusidman and V. S. Neshpor. 10, 975 (1968) [10, 1229 (1968)]
NESMELOV, N. S.
Luminescence of Rock Salt in Very Strong Electric Fields. (E) G. A. Vorob'ev and N. S. Nesmelov. 10, 2932 (1969) [10, 3691 (1968)]
NESTERENKO, V. M.
Optical Detection and Piezoelectric Effect in Some Electrooptical Crystals. (E) B. N. Morozov and V. M. Nesterenko. 10, 1442 (1968) [10, 1833 (1968)]
NETESOVA, N. P.
Influence of an Electric Field on the Ferroelectric Phase Transition in Triglycine Sulfate at High Pressures. (E) G. G. Leonidova and N. P. Netesova. 10, 1985 (1969) [10, 2526 (1968)]
NIKANOROV, S. P.
Temperature Dependence of Elastic Constants of Calcium Fluoride. (E) S. P. Nikanorov, B. K. Kardashev, and N. S. Kas'kovich. 10, 703 (1968) [10, 898 (1968)]
NIKITENKO, V. I.
The Dislocation Structure and Mechanical Properties of Aluminum Antimonide Single Crystals. (E) V. I. Nikitenko, V. N. Vertoprakhov, L. M. Dedukh, and V. P. Zinov'eva. 10, 1435 (1968) [10, 1824 (1968)]
NIKITIN, A. V.
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]
Effect of a Disperse Nitrogen Impurities on the Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, M. I. Samoilovich, and K. F. Vorozhelkin. 10, 1723 (1969) [10, 2200 (1968)]
NIKITINSKAYA, T. I.
Change in the Volume of the Fluorite Lattice Due to Point Defects. (E) M. S. Tyutin, T. I. Nikitinskaya, B. I. Maksakov, and G. M. Zakharov. 10, 1496 (1968) [10, 1898 (1968)]

Density Changes and Optical Absorption of LiF Single Crystals after Irradiation with X Rays. (E) Yu. B. Vladimirskii, G. M. Zakharov, T. I. Nikitinskaya, and V. M. Reiterov. 10, 2250 (1969) [10, 2849 (1968)]

NIKLUDOV, I. M.
Electron-Microscope Investigation of the Effect of the Load-Application Rate on the Structure of Polycrystalline Nickel. (E) I. A. Gindin, V. P. Lebedev, I. M. Neklyudov, and I. I. Bobonets. 10, 1738 (1969) [10, 2216 (1968)]

NIKOLAEV, N. I.
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]

NIKONOV, B. P.
Investigation of the Thermal Dissociation of Alkaline-Earth Metal Oxides in High Vacuum. (E) G. Ya. Pikus, V. F. Shnyukov, and B. P. Nikonov. 10, 93 (1968) [10, 125 (1968)]

NIL'SEN, Kh.
Nonlinear Thermal Conductivity of Dielectrics in the Region of Viscous Flow of a Phonon Gas. (T) Kh. Nil'sen and B. I. Shklovskii. 10, 2857 (1969) [10, 3602 (1968)]

NIZAMETDINOVA, M. A.
Reflection Spectrum and Band Structure of TlSe. (E) F. M. Gashimzade and M. A. Nizametdinova. 10, 2097 (1969) [10, 2665 (1968)]

NIZAMIDINOV, S.
Orientational Changes of Structure in Polyethylene. (E) S. Nizamidinov and A. I. Slutsker. 10, 382 (1968) [10, 487 (1968)]

NOSKIN, V. A.
Galvanomagnetic Properties of Tellurium at Very Low Temperatures. (E) V. A. Noskin, I. I. Farbshtein, and S. S. Shalyt. 10, 881 (1968) [10, 1112 (1968)]

NOVIKOV, B. V.
Interaction of Excitons with Optical Phonons in the Photoconductivity Process. (E) B. V. Novikov, V. I. Safarov, and M. L. Shubnikov. 10, 2484 (1969) [10, 3144 (1968)]

NOVIKOV, G. V.
Magnetic Properties and Crystal Structure of the Solid Solution System Mg_2SnO_4–$MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]

NOVIKOV, N. N.
Range of Wavelengths Causing the Photomechanical Effect. (E) P. P. Kuz'menko, N. N. Novikov, and N. Ya. Gorid'ko. 10, 109 (1968) [10, 148 (1968)]
Sign Reversal of the Electromechanical Effect. (E) N. N. Novikov and V. A. Makara. 10, 2128 (1969) [10, 2704 (1968)]

NOVIKOV, N. P.
Laser Radiation-Induced Breakdown Processes in Polymers at the Load Limit. (E) N. P. Novikov, S. S. Saluen'ya, F. N. Chernyavskii, and Yu. I. Yudin. 10, 2990 (1969) [10, 3751 (1968)]

NOVIKOVA, I. G.
Temperature Dependence of Yield Point and Dislocation Mobility in KCl(Ba^{2+}) Crystals. (T) S. V. Lubenets and I. G. Novikova. 10, 2256 (1969) [10, 2857 (1968)]

NOVIKOVA, S. I.
Thermal Expansion of Substances Having a Defect Structure of the $A^{III}B_3^{VI}$ Type and the Antifluorite Structure. (E) S. I. Novikova. 10, 2481 (1969) [10, 3141 (1968)]
Thermal Expansion of Tellurium. (E) S. I. Novikova. 10, 2723 (1969) [10, 3439 (1968)]

OBOROTOV, A. F.
Diffusion in Al–Sb_2S_3 Films. (E) V. A. Repin, I. T. Aleksanyan, and A. F. Oborotov. 10, 992 (1968) [10, 1246 (1968)]

ODISHARIYA, G. A.
Investigation of Surface Self-Diffusion of Niobium in a Strong Electric Field by Means of a Field-Emission Microscope. (E) G. A. Odishariya. 10, 1130 (1968) [10, 1425 (1968)]

OGANESYAN, V. O.
The Angular Dependence of the Halfwidth of the EPR Line of Cu^{2+} in $ZnWO_4$. (T/E) M. D. Glinchuk and V. O. Oganesyan. 10, 1731 (1969) [10, 2209 (1968)]

OGINOV, R. V.
Photodielectric Effect in SbSI Single Crystals. (E) A. Yu. Kudzin, A. N. Sukhinskii, and R. V. Oginov. 10, 1252 (1968) [10, 1577 (1968)]

OGURTSOV, I. Ya.
Hyperfine Interaction in Impurity Centers and Complexes with Degenerate Electronic Terms. (T) I. B. Bersuker and I. Ya. Ogurtsov. 10, 2894 (1969) [10, 3651 (1968)]

OKSENYUK, A. P.
Properties of Acicular Single Crystals of Antimony Selenide. (E) N. I. Butsko and A. P. Oksenyuk. 10, 1759 (1969) [10, 2237 (1968)]

OKUNEVA, N. M.
Experimental Determination of the Thermal Vibration Spectrum of White Tin. (E) B. A. Kotov, N. M. Okuneva, and É. L. Plachenova. 10, 402 (1968) [10, 513 (1968)]

OLEINIKOV, N. N.
Influence of Chemical Homogeneity upon the Critical Parameters of Certain Nickel/Zinc Ferrites. (E) A. N. Goryaga, N. N. Oleinikov, Yu. D. Tret'yakov, and Shrinivasan Si. 10, 2054 (1969) [10, 2608 (1968)]

OL'KHOVIKOVA, T. I.
Investigation of Defects in InSb Single Crystals by X-Ray Topographic Methods. (E) T. I. Ol'khovikova and I. L. Shul'pina. 10, 1678 (1969) [10, 2141 (1968)]

OMORI, K.
Activator-Free Luminescence of Zn(S:Se) Phosphors. (E) S. Asano, K. Omori, and T. Sumimoto. 10, 891 (1968) [10, 1124 (1968)]

ORLOV, B. M.
Diffusion in Silicon Nitride–Aluminum Films. (E) V. Ya. Kovarskii, I. T. Aleksanyan, O. E. Bondarenko, and B. M. Orlov. 10, 209 (1968) [10, 272 (1968)]

ORLOV, V. N.
Low-Frequency Damping in Germanium. (E) L. N. Aleksandrov, Yu. N. Golobokov, V. N. Orlov, and F. L. Édel'man. 10, 2269 (1969) [10, 2871 (1968)]

ORLOVA, S. L.
Details of Observations of Cyclotron Resonance from Changes in the Static Conductivity. (E/T) E. M. Gershenzon, Yu. A. Gurvich, S. L. Orlova, and N. G. Ptitsyna. 10, 144 (1968) [10, 193 (1968)]

ORUDZHEVA, Sh. O.
Influence of Temperature on the Elastic Constants of a Te Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 10, 507 (1968) [10, 643 (1968)]

OSHEROV, V. I.
Nonadiabatic Transitions of Impurities. (T) V. I. Osherov. 10, 21 (1968) [10, 30 (1968)]
Nonadiabatic Transitions in One-Dimensional Periodic Systems. (T) E. S. Medvedev and V. I. Osherov. 10, 1968 (1969) [10, 2509 (1968)]

OSIPENKO, A. N.
"Slow Beats" in the Quadrupole Spin Echo. (T/E) N. E. Ainbinder, V. S. Grechishkin, A. D. Gordeev, and A. N. Osipenko. 10, 1592 (1969) [10, 2026 (1968)]

OSIP'YAN, Yu. A.
Electron-Microscope Observation of Prismatic Dislocation Loops in Ge. (E) Yu. P. Kabanov, L. M. Morgulis, and Yu. A. Osip'yan. 10, 523 (1968) [10, 665 (1968)]

OSITINSKAYA, T. D.
Determination of the Energy of Formation of Vacancies in Nickel by the Technique of Quenching in Liquid Helium. II. (E) A. A. Mamalui, T. D. Ositinskaya, V. A. Pervakov, and V. I. Khomkevich. 10, 2290 (1969) [10, 2892 (1968)]

OSTROUKHOV, A. A.
Calculation of the Inelastic Backscattering and Transmission Coefficients of Medium-Energy Electrons. (T) A. A. Ostroukhov. 10, 1649 (1969) [10, 2105 (1968)]

OSTROVSKII, I. V.
Excitation of Lamb Waves in CdS Single Crystals. (E) I. Ya. Kucherov and I. V. Ostrovskii. 10, 2216 (1969) [10, 2814 (1968)]
Application of Lamb Waves in CdS. (E) I. Ya. Kucherov and I. V. Ostrovskii. 10, 2767 (1969) [10, 3483 (1968)]
OSKOTSKII, V. S.
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Oskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]
OSVENSKII, V. B.
Some Peculiarities of the Decomposition of Supersaturated Solid Solutions of Copper in Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Osvenskii, and T. G. Yugova. 10, 2144 (1969) [10, 2724 (1968)]
Effect of Doping, As Observed in the Measurement of the Microhardness of GaSb and InSb. (E) V. B. Osvenskii, M. G. Mil'vidskii, O. G. Stolyarov, and V. S. Ivleva. 10, 2212 (1969) [10, 2809 (1968)]
Effect of Charged Additions on the Plasticity of Semiconducting $A^{III}B^{V}$ Compounds. (E) V. B. Osvenskii, O. G. Stolyarov, and M. G. Mil'vidskii. 10, 2540 (1969) [10, 3208 (1968)]
OVCHINNIKOVA, T. L.
The Influence of Exchange Interaction on the Ordering of Holmium Ions in Orthoferrites of the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]
OZHOGIN, V. I.
Investigation of the Magnetic Properties of $RbNiF_3$ in Strong Pulsed Magnetic Fields. (E) A. T. Starovoitov, V. I. Ozhogin, and V. A. Bokov. 10, 1228 (1968) [10, 1553 (1968)]
Magnetic Properties of Certain Magnetically-Ordered Fluorides in a Strong Pulsed Magnetic Field. (E) A. T. Starovoitov, V. I. Ozhogin, V. A. Bokov, and P. P. Syrnikov. 10, 2862 (1969) [10, 3608 (1968)]
PADO, G. S.
Electrical Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 1374 (1968) [10, 1743 (1968)]
PAKHOMOVA, N. L.
Angular Dependence of the Induced Magnetic Anisotropy Constant of Fe–Ni–Co Ferrites. (E) N. L. Bryukhatov, N. L. Pakhomova, and V. A. Kozlov. 10, 1477 (1968) [10, 1879 (1968)]
PALAGASHVILI, Ya. Sh.
Generation and Reception of Ultrasonic Vibrations by Alkali-Halide Single Crystals. (E) Kh. M. Khalilov, A. I. Agaev, V. M. Zuev, and Ya. Sh. Palagashvili. 10, 977 (1968) [10, 1231 (1968)]
Conversion of Ultrasonic into Electrical Oscillations by KCl Single Crystals. (E/T) Kh. M. Khalilov, Ya. Sh. Palagashvili, A. I. Agaev, and V. M. Zuev. 10, 2356 (1969) [10, 2987 (1968)]
PALATNIK, L. S.
Electron Diffraction and Electron Microscope Study of the Structure of Films of Condensed Carbon. (E) B. T. Boiko, L. S. Palatnik, A. S. Derevyanchenko, and Yu. M. Voronin. 10, 520 (1968) [10, 656 (1968)]
Moiré Patterns Due to Misfit Dislocations in Double-Layer Films of Gold and a Gold-Copper Alloy. (E/T) V. M. Kosevich, L. S. Palatnik, and L. E. Chernyakova. 10, 1644 (1969) [10, 2099 (1968)]
Mechanism of Epitaxial Growth of PbTe on KCl. (E) V. M. Kosevich, L. S. Palatnik, and V. K. Sorokin. 10, 1936 (1969) [10, 2465 (1968)]
Deposition of AlSb Semiconducting Films. (E) L. S. Palatnik and P. N. Bogatov. 10, 2526 (1969) [10, 3184 (1968)]
PALYUKH, B. M.
Adsorption, Migration, and Evaporation of Yttrium on a Tungsten Single Crystal. (E) B. M. Palyukh and L. L. Sivers. 10, 1585 (1969) [10, 2018 (1968)]
Temperature Dependence of the Electron Bombardment Effects on the Electronic and Physical Properties of Semiconducting Thin Films. (E/T) L. I. Ivankiv, B. M. Palyukh, and Z. V. Solyanik. 10, 2894 (1969) [10, 3412 (1968)]
The Effect of a Field on the Equilibrium Concentration of Yttrium Atoms Adsorbed on a Tungsten Point. (E) B. M. Palyukh and L. L. Sivers. 10, 2962 (1969) [10, 3723 (1968)]
PANCHISHIN, R. S.
Investigation of Structure and Electrical Conductivity of Molybdenum and Titanium Thin Films Deposited on NaCl Single Crystals. (E) R. S. Panchishin, Z. V. Stasyuk, and D. M. Freik. 10, 2149 (1969) [10, 2731 (1968)]
PANYUSHKIN, V. N.
Shift of the Mössbauer Line of β-Sn during Its Phase Transition under Pressure. (E) V. N. Panyushkin. 10, 1515 (1968) [10, 1915 (1968)]
PAPIROV, I. I.
Study of the Deformation of Polycrystalline Beryllium during Compression. (E) V. A. Finkel' and I. I. Papirov. 10, 2782 (1969) [10, 3497 (1968)]
PAPKOV, V. S.
Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]
PARFEN'EV, R. V.
Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]
Detection of Shubnikov-de Haas Oscillations in n-Type GaAs. (E) A. V. Matveenko, G. D. Mel'nikov, and R. V. Parfen'ev. 10, 2243 (1969) [10, 2842 (1968)]
Quantum Oscillations of the Kinetic and Photoelectric Coefficients on n-Type Bismuth Telluride (Bi_2Te_3). (E) R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman. 10, 2432 (1969) [10, 3087 (1968)]
The Appearance of a Second Conductivity Zone of GaSb in the Shubnikov-De Haas Effect. (E/T) D. V. Mashovets, R. V. Parfen'ev, and V. S. Vekshina. 10, 2700 (1969) [10, 3417 (1968)]
PAROBETS, A. S.
X-Ray Spectroscopic Study of Titanium Monoxide in the Homogeneous Region and of Titanium Nitride. (E) I. A. Brytov, M. A. Rumsh, and A. S. Parobets. 10, 621 (1968) [10, 794 (1968)]
PASHAEV, Kh. M.
Spin-Wave Theory of a Ferromagnet with Interstitial Magnetic Impurities. (T) G. R. Augst, A. P. Zhernov, and Kh. M. Pashaev. 10, 2092 (1969) [10, 2658 (1968)]
PATASHINSKII, A. Z.
The Resistance Anomaly of Ferromagnetic and Antiferromagnetic Metals near the Magnetic Ordering Point. (T) V. M. Nabutovskii and A. Z. Patashinskii. 10, 2462 (1969) [10, 3121 (1968)]
PATRINA, I. B.
ESR Evidence of the State of Carriers in V_2O_3. (E) V. A. Ioffe and I. B. Patrina. 10, 639 (1968) [10, 815 (1968)]
PAUGURT, A. P.
Nuclear Magnetic Resonance of Fe^{57} in Local Fields of Ferrite Garnets. (E/T) A. P. Paugurt and M. P. Petrov. 10, 2734 (1969) [10, 3451 (1968)]
PAUTKINA, G. N.
Mössbauer Study of States of Iron Atoms at Nickel Grain Boundaries. (E) B. S. Bokshtein, Yu. B. Voitkovskii, A. A. Zhukhovitskii, and G. N. Pautkina. 10, 2940 (1969) [10, 3699 (1968)]
PAUTOV, D. M.
Study of Surface Self-Diffusion of Tantalum by Field-Emission Microscopy. (E) D. M. Pautov and I. L. Sokol'skaya. 10, 1941 (1969) [10, 2473 (1968)]
PAVLENKO, A. V.
Frequency Dependence of Attenuation of Elastic Waves in $Y_3Fe_5O_{12}$ Single Crystals. (E) V. V. Lemanov and A. V. Pavlenko. 10, 1949 (1969) [10, 2484 (1968)]

PAVLICHENKO, V. I.
Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]
Blue Photo- and Electroluminescence of Epitaxial Silicon Carbide Films. (E) V. I. Pavlichenko, I. V. Ryzhikov, Yu. M. Suleimanov, and Yu. M. Shvaidak. 10, 2205 (1969) [10, 2801 (1968)]
Energy Spectrum of Boron in Silicon Carbide. (E) V. I. Pavlichenko and I. V. Ryzhikov. 10, 2977 (1969) [10, 3737 (1968)]
PAVLOTSKII, I. P.
Phase Transitions in One-Dimensional Systems. (T) I. P. Pavlotskii. 10, 1916 (1969) [10, 2438 (1968)]
PAVLOV, E. V.
Determination of Conductivity Parameters in Potassium Halides. (E) Ya. N. Pershits and E. V. Pavlov. 10, 1125 (1968) [10, 1418 (1968)]
PAVLOV, P. V.
Distribution and Range of Boron and Phosphorus Ions Used in Bombardment of SiO_2. (E) V. G. Volod'ko, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 10, 828 (1968) [10, 1048 (1968)]
PAVLOV, S. T.
Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]
PAVLOV, V. N.
Influence of Temperature on the Magnetic Anisotropy and Zeeman Effect in Erbium Ferrite Garnet. (E) A. I. Belyaeva, V. N. Pavlov, and A. V. Antonov. 10, 537 (1968) [10, 683 (1968)]
PAVLOV, V. S.
Interaction between 90° Domain Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]
PAVLUSHENKO, K. I.
Prebreakdown Processes in Polycrystalline Calcium Titanate. (E) K. I. Pavlushenko. 10, 2465 (1969) [10, 3124 (1968)]
PEL', É. G.
Observation of Spatially Phased and Out-of-Phase Oscillations of an Electron-Hole Plasma in a Semiconductor. (E) M. I. Iglitsyn, É. G. Pel', L. Ya. Pervova, and V. I. Fistul'. 10, 2730 (1969) [10, 3448 (1968)]
PELETMINSKII, S. V.
Theory of Nuclear Magnetic Resonance in Ferromagnets. (T) V. G. Bar'yakhtar, S. V. Peletminskii, and É. G. Petrov. 10, 615 (1968) [10, 785 (1968)]
Behavior of Ferrodielectrics and Antiferromagnets in a Rapidly Oscillating Magnetic Field. (T) A. I. Akhiezer and S. V. Peletminskii. 10, 2609 (1969) [10, 3301 (1968)]
PEREGUDOV, G. V.
Cross Section for the Raman Scattering of Light in GaP and CdS Crystals. (E) V. S. Ryazanov, V. S. Gorelik, G. V. Peregudov, M. M. Sushchinskii, and V. A. Chirkov. 10, 1508 (1968) [10, 1909 (1968)]
PEREKALINA, T. M.
Anisotropy of Magnetization of the Hexagonal Ferrite $BaCo_2 \cdot TiFe_{16}O_{27}$. (E) T. M. Perekalina, A. D. Shchurova, and V. P. Cheparin. 10, 2460 (1969) [10, 3119 (1968)]
PEREL', V. I.
Calculation of the Conditions for the Excitation of Recombination Waves in Germanium Containing Compensating Impurities. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 10, 686 (1968) [10, 876 (1968)]
PERFILOVA, V. É.
Electrooptic Effect in Strontium Titanate Crystals. (E) A. S. Sonin and V. É. Perfilova. 10, 242 (1968) [10, 305 (1968)]
PERZHINOVA, M.
Effect of Neutron Radiation on Dislocation Mobility in LiF Crystals. (E) A. A. Urusovskaya and M. Perzhinova. 10, 2487 (1969) [10, 3146 (1968)]
PERLIN, E. Yu.
Band Form for F-Center Absorption of Light in an External Field. (T) Yu. E. Perlin and E. Yu. Perlin. 10, 2706 (1969) [10, 3423 (1968)]
PERLIN, Yu. E.
Optical Transitions to Degenerate Localized Levels. (T) Yu. E. Perlin. 10, 1531 (1969) [10, 1941 (1968)]
Band Form for F-Center Absorption of Light in an External Field. (T) Yu. E. Perlin and E. Yu. Perlin. 10, 2706 (1969) [10, 3423 (1968)]
PERSHITS, Ya. N.
Displacement of Cation Vacancies during Coloration of Alkali-Halide Crystals in an Electric Field. (E) Ya. N. Pershits and A. N. Il'in. 10, 719 (1968) [10, 915 (1968)]
Determination of Conductivity Parameters in Potassium Halides. (E) Ya. N. Pershits and E. V. Pavlov. 10, 1125 (1968) [10, 1418 (1968)]
The Effect of Impurity Anions on the Electric Conductivity of Alkali-Halide Crystals. (E) Ya. N. Pershits and N. N. Vasil'ev. 10, 1262 (1968) [10, 1587 (1968)]
Interaction of Holes and Impurity Complexes in Potassium Iodide Crystals. (E) Ya. N. Pershits and M. G. Pinsk. 10, 2746 (1969) [10, 3463 (1968)]
PERSONOV, R. I.
Temperature Broadening, Shifts, and Line Shapes in the Quasilinear Spectra of Organic Molecules in n-Paraffin Solid Solutions. (E) R. I. Personov and V. V. Solodunov. 10, 1454 (1968) [10, 1848 (1968)]
PERSSON, E.
Integrated Characteristics of the Anomalous Transmission of X Rays in Germanium for the Wavelength Range 0.4970–2.2896 Å. (E/T) O. Efimov and E. Persson. 10, 1756 (1969) [10, 2234 (1968)]
Determination of the Effective Width of the "Spectral Window" of an X-Ray Crystal Spectrometer. (E) G. Brogren, O. Efimov, and E. Persson. 10, 2138 (1969) [10, 2716 (1968)]
PERVAKOV, V. A.
Determination of the Energy of Formation of Vacancies in Nickel by the Technique of Quenching in Liquid Helium. II. (E) A. A. Mamalui, T. D. Ositinskaya, V. A. Pervakov, and V. I. Khomkevich. 10, 2290 (1969) [10, 2892 (1968)]
PERVOVA, L. Ya.
Observation of Spatially Phased and Out-of-Phase Oscillations of an Electron-Hole Plasma in a Semiconductor. (E) M. I. Iglitsyn, É. G. Pel', L. Ya. Pervova, and V. I. Fistul'. 10, 2730 (1969) [10, 3446 (1968)]
PETRAKOVSKII, G. A.
The Magnetic Properties of Copper Ferrite Single Crystals. (E) G. A. Petrakovskii, K. A. Sablina, and É. M. Smokotin. 10, 2005 (1969) [10, 2544 (1968)]
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. (E) G. A. Petrakovskii, I. K. Pukhov, V. N. Seleznev, and A. I. Drokin. 10, 2528 (1969) [10, 3186 (1968)]
PETROV, É. G.
Theory of Nuclear Magnetic Resonance in Ferromagnets. (T) V. G. Bar'yakhtar, S. V. Peletminskii, and É. G. Petrov. 10, 615 (1968) [10, 785 (1968)]
PETROV, M. P.
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]
Electron Paramagnetic Resonance Spectrum of Mn^{2+} Ions in Ferroelectric $LiNbO_3$. (E/T) M. P. Petrov. 10, 2574 (1969) [10, 3254 (1968)]
Nuclear Magnetic Resonance of Fe^{57} in Local Fields of Ferrite Garnets. (E/T) A. P. Paugurt and M. P. Petrov. 10, 2734 (1969) [10, 3451 (1968)]
PETROV, N. N.
Luminescence of SiC Single Crystals Bombarded with Electrons, Hydrogen Ions, and Deuterium Ions of Energies up to 20 keV. (E) V. V. Makarov and N. N. Petrov. 10, 154 (1968) [10, 205 (1968)]

Electron Emission Due to Bombardment of NaCl and KCl Single Crystals with Slow Inert-Gas Ions Incident at Various Angles. (E) N. N. Petrov, N. F. Volkov, and A. I. Kondrashev. 10, 832 (1968) [10, 1053 (1968)]

PETROVA, L. N.
The Anisotropic Galvanomagnetic Effect in Ferromagnets. (T/E) L. N. Petrova. 10, 8 (1968) [10, 12 (1968)]

PETUKHOV, B. V.
Bound States of Electrons and Neutral Impurities. (T) B. V. Petukhov and Yu. I. Polyakov. 10, 1485 (1968) [10, 1887 (1968)]

PEVIN, N. M.
Aspects of Electron Paramagnetic Resonance in n-Type InSb. (E) E. M. Gershenzon, N. M. Pevin, and M. S. Fogel'son. 10, 2278 (1969) [10, 2880 (1968)]

PIKALOVA, I. S.
The Influence of the Cathode Material on the Electrical Strength of Solid Dielectrics. (E) I. S. Pikalova. 10, 215 (1968) [10, 278 (1968)]

PIKHTIN, A. N.
Electroluminescence of Gallium Phosphide near the Forbidden Band. (E) A. N. Pikhtin and D. A. Yas'kov. 10, 1311 (1968) [10, 1660 (1968)]

PIKKA, T. A.
Phase Transitions in $A_VB_{VI}C_{VII}$ Ferroelectric Semiconductors. (E) T. A. Pikka and V. M. Fridkin. 10, 2668 (1969) [10, 3378 (1968)]

PIKIN, S. A.
Temperature Dependence of the Anisotropy Energy in a Ferromagnet. (T) S. A. Pikin. 10, 1368 (1968) [10, 1735 (1968)]
The Effect of the Magneto-Dipole Interaction on Spin Waves in a Ferromagnet. (T) S. A. Pikin. 10, 2039 (1969) [10, 2587 (1968)]

PIKUS, G. E.
Quantum Theory of Free-Electron Dielectric Constant in Semiconductors. (T) A. G. Aronov, G. E. Pikus, and D. Sh. Shekhter. 10, 645 (1968) [10, 822 (1968)]
Anisotropic Electrooptic Effects in Semiconductors. (T) A. G. Aronov and G. E. Pikus. 10, 648 (1968) [10, 825 (1968)]

PIKUS, G. Ya.
Investigation of the Thermal Dissociation of Alkaline-Earth Metal Oxides in High Vacuum. (E) G. Ya. Pikus, V. F. Shnyukov, and B. P. Nikonov. 10, 93 (1968) [10, 125 (1968)]

PIL'SHCHIKOV, A. I.
Effect of Anisotropy on the Magnetostatic Spectrum of a Ferrite Sphere. (E) A. I. Pil'shchikov and N. S. Sedletskaya. 10, 1035 (1968) [10, 1298 (1968)]

PIMENOV, Yu. P.
Two-Photon Absorption Mechanism in CaF_2:Ho^{3+} Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1968) [10, 1645 (1968)]

PINSK, M. G.
Interaction of Holes and Impurity Complexes in Potassium Iodide Crystals. (E) Ya. N. Pershits and M. G. Pinsk. 10, 2746 (1969) [10, 3463 (1968)]

PIROZHKOV, B. I.
Enthalpy and Specific Heat of Amorphous Isomers. (E) B. I. Pirozhkov and Yu. G. Svetlov. 10, 240 (1968) [10, 303 (1968)]

PISAREV, R. V.
The Temperature Dependence of Optical Absorption in the Antiferromagnet $KNiF_3$. (E/T) R. V. Pisarev and S. D. Prokhorova. 10, 1668 (1969) [10, 2129 (1968)]
Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]
Scattering of Light by Spin-Ordering Fluctuations Close to the Néel Point in Antiferromagnetic $KNiF_3$. (E) Z. M. Khashkhozhev, R. V. Pisarev, and G. A. Smolenskii. 10, 2772 (1969) [10, 3487 (1968)]

PISTRYAK, V. M.
Use of Secondary Ionic Emission to Study Bulk Processes in Solids. (T/E) V. F. Kozlov, V. M. Pistryak, and Ya. M. Fogel'. 10, 2952 (1969) [10, 3713 (1968)]

PITERKIN, B. D.
The Crystal Field in Rutiles and the EPR Spectrum of Ions with a d^1 Shell. (T) B. P. Berkovskii, M. P. Votinov, B. D. Piterkin, and D. D. Suchkov. 10, 2867 (1969) [10, 3615 (1968)]

PLACHENOVA, É. L.
Experimental Determination of the Thermal Vibration Spectrum of White Tin. (E) B. A. Kotov, N. M. Okuneva, and É. L. Plachenova. 10, 402 (1968) [10, 513 (1968)]

PLAKHTII, V. P.
Neutron-Diffraction Investigation of the $BiMnO_3$–$CaMnO_3$ System: $Bi_{0.5}Ca_{0.5}MnO_3$ Composition. (E) É. I. Turkevich and V. P. Plakhtii. 10, 754 (1968) [10, 951 (1968)]

PLAKSINA, T. S.
Nucleation of a New Phase in Solid Solutions. (T) A. L. Roitburd, A. G. Khachaturyan, and T. S. Plaksina. 10, 1684 (1969) [10, 2149 (1968)]

PLOTNIKOV, A. F.
Photoeffect Due to Generation of Excitons in Semiconductors. (E) I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova. 10, 770 (1968) [10, 974 (1968)]
Oscillations in the Photoconductivity and Absorption Spectra of Silicon Due to A Centers. (E) I. P. Akimchenko, V. S. Vavilov, V. A. Vdovenkov, and A. F. Plotnikov. 10, 2917 (1969) [10, 3677 (1968)]

POGARSKII, A. M.
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Oskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]

POGODAEV, K. N.
Photoconductivity Spectrum of Diamond. (E) K. N. Pogodaev and V. S. Tatarinov. 10, 1510 (1968) [10, 1911 (1968)]

POGULYAEV, V. V.
Electrical Conductivity of Silicon Monoxide Thin Films. (E/T) V. Ya. Kunin, V. V. Pogulyaev, and A. N. Tsikin. 10, 2023 (1969) [10, 2564 (1968)]

POIKER, K.
Density-Matrix Methods in the Theory of Luminescence and Raman Scattering. (T) K. Poiker and E. D. Trifonov. 10, 1346 (1968) [10, 1705 (1968)]

POKATILOV, E. P.
Variational Calculation of the Energy Levels of a Hydrogen-Like System in a Magnetic Field. (T) E. P. Pokatilov and M. M. Rusanov. 10, 2458 (1969) [10, 3117 (1968)]

POKROVSKII, V. L.
Influence of an Acoustic Wave on the Optical Properties of Crystals. (T) V. G. Kamenskii and V. L. Pokrovskii. 10, 2841 (1969) [10, 3579 (1968)]
Influence of Elasticity on Magnetic Phase Transitions. (T) V. L. Pokrovskii. 10, 2852 (1969) [10, 3594 (1968)]

POLANDOV, I. N.
Investigation of the Ferroelectric Properties of Triglycine Selenate at High Hydrostatic Pressures. (E) I. N. Polandov, V. P. Mylov, B. A. Strukov, and V. M. Varikash. 10, 1092 (1968) [10, 1377 (1968)]
The P–T Diagram of the Ferroelectric Crystal NH_4HSO_4. (E) L. N. Polandov, V. P. Mylov, and B. A. Strukov. 10, 1754 (1969) [10, 2232 (1968)]

POLISAR, É. É.
Emergence of Dislocations in HgTe Crystals during Annealing in Mercury Vapors. (E/T) G. V. Indenbaum, É. É. Polisar, and A. V. Vanyukov. 10, 1982 (1969) [10, 2524 (1968)]

POLIVANOV, Yu. N.
A Phase Method for Measuring Temperature of Some Anisotropic Crystals. (E) G. V. Krivoshchekov, S. I. Marennikov, and Yu. N. Polivanov. 10, 756 (1968) [10, 953 (1968)]

POLOZOVA, I. P.
Investigation of the Valence States of Tin in Tin-Containing Glasses by Means of the Mössbauer Effect. (E) I. P. Polozova and P. P. Seregin. 10, 1996 (1969) [10, 2536 (1968)]

POL'SKII, Yu. E.
Electron Nuclear Double Resonance of V^{2+} in CaF_2. (E) Yu. F. Mitrofanov, Yu. E. Pol'skii, and M. L. Falin. 10, 2923 (1969) [10, 3682 (1968)]

POLTINNIKOV, S. A.
The Para-Process near the Curie Point in Polycrystalline Cobalt-Zinc Ferrite. (E/T) S. A. Poltinnikov. 10, 2928 (1969) [10, 3687 (1968)]

POLYAKOV, L. M.
Influence of Hydrostatic Pressure on the Behavior of Macrodefects in Ionic Crystals. (E) L. M. Polyakov. 10, 822 (1968) [10, 1041 (1968)]

POLYAKOV, V. P.
Short-Range Order in Y–Ca–Fe–V Garnets. (E) G. A. Matveev and V. P. Polyakov. 10, 2566 (1969) [10, 3243 (1968)]
Interaction of Magnetic Sublattices in Gadolinium Ion Garnet. (T/E) V. P. Polyakov. 10, 2891 (1969) [10, 3647 (1968)]

POLYAKOV, Yu. I.
Bound States of Electrons and Neutral Impurities. (T) B. V. Petukhov and Yu. I. Polyakov. 10, 1485 (1968) [10, 1887 (1968)]

POLYAN, R. A.
Motion of a Dislocation Loop in an Ionic Crystal in an External Electric Field. (T) I. G. Margvelashvili, R. A. Polyan, and Z. K. Saralidze. 10, 2475 (1969) [10, 3134 (1968)]

POMORTSEV, R. V.
Double Refraction and Dichroism of UHF Waves Due to Hot Electrons in n-Ge and n-Si. (E/T) A. B. Davydov and R. V. Pomortsev. 10, 870 (1968) [10, 1098 (1968)]

POMORTSEV, V. V.
Investigation of the Distribution Statistics of Paramagnetic Centers Using Relaxation Parameters of Nonuniformly Broadened EPR Lines. (T) V. I. Muromtsev, V. V. Pomortsev, and V. N. Kharitonova. 10, 1933 (1969) [10, 2462 (1968)]

PONOMAREV, A. I.
Oscillations of the Magnetoresistance in HgTe. (E) I. M. Tsidil'kovskii and A. I. Ponomarev. 10, 859 (1968) [10, 1085 (1968)]

POPKOV, Yu. M.
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]

POPLAVKO, Yu. M.
Nature of Phase Transitions in $PbCd_{0.4}W_{0.6}O_3$. (E) Yu. M. Poplavko, V. G. Tsykalov, V. I. Molchanov, and V. A. Isupov. 10, 1217 (1968) [10, 1542 (1968)]
Microwave Dielectric Dispersion of the Ferroelectric and Paraelectric Phases of Barium Titanate. (E) Yu. M. Poplavko, V. G. Tsykalov, and V. I. Molchanov. 10, 2708 (1969) [10, 3425 (1968)]

POPOV, G. V.
Calcium Stannate – A Source for Mössbauer Measurements. (E) A. V. Kalyamin, B. G. Lur'e, G. V. Popov, and Yu. F. Romanov. 10, 2522 (1969) [10, 3180 (1968)]

POPOV, L. E.
Antiphase Domain Boundary Equilibrium and Short-Range Order. (E) N. V. Kozhemyakin and L. E. Popov. 10, 1619 (1969) [10, 2065 (1968)]

POPOV, V. A.
The Spin Wave Spectrum in Antiferromagnets. (T) V. G. Bar'yakhtar and V. A. Popov. 10, 605 (1968) [10, 773 (1968)]

POPOV, V. E.
Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]

POPOV, Yu. I.
Relation between the Magnetic Dipole and Electric Quadrupole Interactions of the Nuclei in Metallic Aluminum. (E) K. S. Saikin, O. A. Andreeva, Yu. L. Popov, F. I. Bashirov, and R. A. Dautov. 10, 2558 (1969) [10, 3233 (1968)]

POPOV, Yu. M.
Possibility of Using Alkali-Halide Crystals for the Amplification of Light. (E) A. Ya. Golkhman and Yu. M. Popov. 10, 2489 (1969) [10, 3148 (1968)]

POPOVA, A. P.
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) L. E. Blagoskionskaya, E. M. Gershenzon, Yu. P. Ladyshinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]

POPOVA, E. A.
Low-Frequency Vibrations in the Ferroelectric Crystal Potassium Dihydrogen Phosphate (KDP). (E) A. I. Stekhanov and E. A. Popova. 10, 327 (1968) [10, 415 (1968)]
Details of the Structure of the H_2PO_4 Ion in Ferroelectric KH_2PO_4. (E) E. A. Popova and A. I. Stekhanov. 10, 2948 (1969) [10, 3708 (1968)]

POPOVA, S. V.
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]

POROZOV, B. Yu.
Cross Relaxation in Corundum Crystals Containing Both Iron and Titanium Impurities. (E) Yu. K. Golub', L. S. Kornienko, and B. Yu. Porozov. 10, 2760 (1969) [10, 3477 (1968)]

POSPELOV, Yu. A.
A New Method for Determining the Dependence of the Carrier Density on Pressure in Semimetals. (T/E) N. B. Brandt, N. Ya. Minina, and Yu. A. Pospelov. 10, 1011 (1968) [10, 1268 (1968)]

POSTNIKOV, V. S.
Characteristic Features of the Structure of Copper Whiskers Deformed by Torsion. (E) V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer, and V. I. Koltunov. 10, 516 (1968) [10, 652 (1968)]
Stresses in Epitaxial Films. (E) V. S. Postnikov, V. M. Ievlev, V. K. Belonogov, and I. V. Zolotukhin. 10, 722 (1968) [10, 917 (1968)]
Interaction between 90° Domain Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]
Activation Energy for Migration of Ag and Au Atoms along Natural Cleavage Surfaces of Mica. (E) V. S. Postnikov, V. M. Ievlev, and I. V. Zolotukhin. 10, 2531 (1969) [10, 3189 (1968)]

POVITSKII, V. A.
Effective Magnetic Fields at Fe^{57} and Sn^{119} Nuclei in Ferrite Garnets with High Concentrations of Nonmagnetic Sn^{4+} Ions. (E) I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii. 10, 419 (1968) [10, 534 (1968)]
Investigation of the Magnetic Ordering of $CuFe_2S_3$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskii, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]

POZDNYAKOV, O. F.
Mass-Spectrometer Study of the Kinetics of Cracking in Plastics and the Kinetics of the Growth of Arterial Cracks. (E) O. F. Pozdnyakov and V. R. Regel'. 10, 2905 (1969) [10, 3664 (1968)]

PRESNOV, V. A.
Paramagnetic Resonance in Fe-Doped Gallium Arsenide. (E) V. K. Bazhenov, V. A. Presnov, and S. P. Fedotov. 10, 205 (1968) [10, 268 (1968)]

PRZHEVUSKII, A. K.
Concentration-Dependent Line-Shift in Optical Spectra of Ruby. (T/E) A. A. Kaplyanskii, A. K. Przhevuskii, and R. B. Rozenbaum. 10, 1864 (1969) [10, 2370 (1968)]

PROKHOROV, A. M.
Some Aspects of the Laser Mechanism in $CaF_2:Dy^{2+}$ Crystals. (E) E. M. Zolotov, A. M. Prokhorov, and G. P. Shipulo. 10, 848 (1968) [10, 1071 (1968)]
Two-Photon Absorption Mechanism in $CaF_2:Ho^{3+}$ Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1968) [10, 1645 (1968)]
Optical Homogeneity of Ruby Crystals and Its Relation to the Radiation Divergence of Lasers. (E) Yu. K. Danileiko, A. A. Manenkov, A. M. Prokhorov, and V. Ya. Khaimov-Mal'kov. 10, 2154 (1969) [10, 2738 (1968)]

PROKHOROVA, S. D.
The Temperature Dependence of Optical Absorption in the Antiferromagnet $KNiF_3$. (E/T) R. V. Pisarev and S. D. Prokhorova. 10, 1668 (1969) [10, 2129 (1968)]

PROKHVATILOV, A. I.
Relaxation of Stresses in Ammonia Single Crystals. (E) A. I. Prokhvatilov and D. N. Bol'shutkin. 10, 966 (1968) [10, 1218 (1968)]

PROKOPALO, O. I.
Preparation and Properties of Cadmium Hafnate. (E) L. N. Aver'yanova, I. N. Belyaev, Yu. I. Gol'tsov, L. A. Solov'ev, R. I. Spinko, and O. I. Prokopalo. 10, 2698 (1969) [10, 3416 (1968)]

PROSKURYAKOV, O. B.
Magnetic Properties and Crystal Structure of the Solid Solution System Mg_2SnO_4–$MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]

PROTASOV, I. I.
The Energy Spectrum of Gallium Arsenide Doped with Silicon. (E) Zh. I. Alferov, D. Z. Garbuzov, E. P. Morozov, I. I. Protasov, and D. N. Tret'yakov. 10, 2260 (1969) [10, 2861 (1968)]

PROTOPOPOV, O. D.
Emission Parameters of Faces of a Niobium Single Crystals. (E) O. D. Protopopov and I. V. Strigushchenko. 10, 747 (1968) [10, 943 (1968)]

PSHISUKHA, A. M.
EPR of Mn^{2+} in the System $ZnWO_4$–$MnWO_4$. (E/T) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 10, 2046 (1969) [10, 2597 (1968)]

PTASHNIK, V. B.
The Relative Difference in the Ionic Mobilities of Lithium Li_1^+ and Li_7^+ Isotopes in LiF Single Crystals. (T/E) V. B. Ptashnik and A. N. Naumov. 10, 690 (1968) [10, 880 (1968)]
Self-Diffusion of Li^+ Ions in Lithium Fluoride Single Crystals. (E) A. N. Naumov and V. B. Ptashnik. 10, 2950 (1969) [10, 3710 (1968)]

PTITSYNA, N. G.
Details of Observations of Cyclotron Resonance from Changes in the Static Conductivity. (E/T) E. M. Gershenzon, Yu. A. Gurvich, S. L. Orlova, and N. G. Ptitsyna. 10, 144 (1968) [10, 193 (1968)]

PTUSHINSKII, Yu. G.
Mass-Spectrometric Investigation of the Interaction of Oxygen with (110) and (100) Faces of a Tungsten Single Crystal. (E) Yu. G. Ptushinskii and B. A. Chuikov. 10, 565 (1968) [10, 722 (1968)]
Adsorption of Carbon Monoxide on (110) and (113) Surfaces of Tungsten Single Crystals Partly Covered by Oxygen. (E) V. S. Ageikin and Yu. G. Ptushinskii. 10, 1698 (1969) [10, 2168 (1968)]

PUGACHEV, A. T.
Melting of Subcritically Thin Condensed Films of Indium. (E) B. T. Boiko, A. T. Pugachev, and V. M. Bratsykhin. 10, 2832 (1969) [10, 3567 (1968)]

PUGACHEV, G. S.
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Baikova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]

PUKH, V. P.
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Baikova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]

PUKHOV, I. K.
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. (E) G. A. Petrakhovskii, I. K. Pukhov, V. N. Seleznev, and A. I. Drokin. 10, 2528 (1969) [10, 3186 (1968)]

PUKHOV, K. K.
The Effect of Quasilocalizable Oscillations on the Spin-Lattice Relaxation of Some Rare-Earth Ions in a CaF_2 Lattice. (T) K. K. Pukhov and V. P. Sakun. 10, 1148 (1968) [10, 1448 (1968)]

PUSTOVOIT, V. I.
Electrical Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 2274 (1968) [10, 1743 (1968)]

PYSHKIN, S. L.
Effect of Electric Field and Temperature on Exciton Radiation Intensity in GaP. (E) B. M. Ashkinadze, I. P. Kretsu, S. L. Pyshkin, S. M. Ryvkin, and I. D. Yaroshetskii. 10, 2921 (1969) [10, 3651 (1968)]

RACHINSKII, I. L.
Method of Investigating the Oxidation Kinetics of Metals. (E) I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii. 10, 2439 (1969) [10, 3097 (1968)]

RADCHENKO, I. S.
Attenuation of Light by Colloids in Mixed Alkali Halide Crystals. (E/T) I. S. Radchenko and V. V. Udod. 10, 1827 (1969) [10, 2321 (1968)]

RAGIMOV, I. A.
Multilayer Vacancy Dislocation Rings in Zinc. (E) V. N. Rozhanskii and I. A. Ragimov. 10, 1117 (1968) [10, 1408 (1968)]

RAIKHEL'S, E. I.
X-Ray Scattering by Real Alkali-Halide Single Crystals. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 10, 1330 (1968) [10, 1684 (1968)]
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1969) [10, 3060 (1968)]

RAKHMANOV, S. Ya.
Behavior of Magnetic Moments of Metals in Strong Magnetic Fields. (T) S. Ya. Rakhmanov and M. Ya. Azbel'. 10, 1304 (1968) [10, 1650 (1968)]

RAKIMOV, R. R.
Potential and Kinetic Electron Emission from the (110) and (111) Faces of a Mo Single Crystal. (E) U. A. Arifov, R. R. Rakhimov, and Kh. Dzhurakulov. 10, 925 (1968) [10, 1166 (1968)]

RAKOV, A. V.
Investigation of the Reflection Spectra of Vanadium Dioxide Single Crystals at the Semiconductor–Metal Phase Transition. (E) V. G. Mokerov and A. V. Rakov. 10, 1231 (1968) [10, 1556 (1968)]

RAPP, I. Yu.
Structure and Optical Properties of Gallium Layers Precipitated in Vacuum. (E) I. Yu. Rapp, I. N. Shklyarevskii, and R. G. Yarovaya. 10, 1780 (1969) [10, 2257 (1968)]

RARENKO, I. M.
Elastic Moduli of CdSb. (E) L. I. Anatychuk, V. D. Iskra, I. M. Rarenko, and B. M. Sharlai. 10, 2702 (1969) [10, 3419 (1968)]

RASHBA, É. I.
Electrical Conductivity of a Crystal Plate with a Many-Valley Carrier Energy Spectrum. (T) Yu. I. Gorkun and É. I. Rashba. 10, 2406 (1969) [10, 3053 (1968)]

RASHKOVICH, L. N.
Nuclear Magnetic Resonance in Lithium Niobate. (E) V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, L. N. Rashkovich, and N. F. Evlanova. 10, 594 (1968) [10, 759 (1968)]

RASSVETALOV, L. A.
External Field Amplification Factor and Relaxation Time of Fe^{3+} Nuclei during the Observation of Nuclear Magnetic Resonance Signals in Nickel Ferrite. (T/E) L. A. Rassvetalov, S. P. Repnikov, and V. B. Ustinov. 10, 453 (1968) [10, 576 (1968)]

RAZUMOVA, T. K.
Nonlinear Absorption in CdSe. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 10, 981 (1968) [10, 1235 (1968)]

RED'KO, N. A.
Phonon Drag in Antimony. (E) N. A. Red'ko and S. S. Shalyt. 10, 1233 (1968) [10, 1557 (1968)]

REGEL', A. R.
Electric Conductivity of the Lanthanum-Cerium System in the Solid and in the Liquid State. (E) F. Gaibullaev, A. R. Regel', and Kh. Khusanov. 10, 1742 (1969) [10, 2220 (1968)]

Dependence of the Density-of-States Effective Mass on the Current-Carrier Concentration and Temperature in the n-Type Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov and A. R. Regel'. 10, 2513 (1969) [10, 3171 (1968)]
Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. (E) F. Gaibullaev, M. Mamadaliev, A. R. Regel', and Kh. Khusanov. 10, 2516 (1969) [10, 3174 (1968)]

REGEL', V. R.
Mass-Spectrometer Study of the Kinetics of Cracking in Plastics and the Kinetics of the Growth of Arterial Cracks. (E) O. F. Pozdnyakov and V. R. Regel'. 10, 2905 (1969) [10, 3664 (1968)]

REITEROV, V. M.
Density Changes and Optical Absorption of LiF Single Crystals after Irradiation with X Rays. (E) Yu. B. Vladimirskii, G. M. Zakharov, T. I. Nikitinskaya, and V. M. Reiterov. 10, 2250 (1969) [10, 2849 (1968)]

REMBEZA, S. I.
Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]
Concentration Dependence of the Diffusion Coefficient of Zinc in Indium Arsenide. (E) B. I. Boltaks, S. Ya. Ksendzov, and S. I. Rembeza. 10, 2186 (1969) [10, 2778 (1968)]
Effect of Dislocations on the Decomposition of Solid Solutions of Elements of the Copper Group in Indium Arsenide. (E) B. I. Boltaks and S. I. Rembeza. 10, 2477 (1969) [10, 3136 (1968)]

REPETSKII, S. P.
Spin-Wave Instability of a Ferrite Plate with Parametric Excitation by Acoustic Waves. (T) S. P. Repetskii and Yu. A. Tsvirko. 10, 1205 (1968) [10, 1524 (1968)]

REPIN, V. A.
Diffused in Al–Sb_2S_3 Lattice. (E) V. A. Repin, I. T. Aleksanyan, and A. F. Oborotov. 10, 992 (1968) [10, 1246 (1968)]

REPNIKOV, S. P.
External Field Amplification Factor and Relaxation Time of Fe^{57} Nuclei during the Observation of Nuclear Magnetic Resonance Signals in Nickel Ferrite. (T/E) L. A. Rassvetalov, S. P. Repnikov, and V. B. Ustinov. 10, 453 (1968) [10, 576 (1968)]
Nuclear Magnetic Resonance in Thin Cobalt Films. (E) V. B. Ustinov, S. P. Repnikov, É. O. Saakov, and V. A. Teryaev. 10, 1264 (1968) [10, 1589 (1968)]

RESHCHIKOVA, L. M.
Anomalies of Elastic Properties and Internal Friction of a CoO Single Crystal. (E) K. S. Aleksandrov, L. A. Shabanova, and L. M. Reshchikova. 10, 1316 (1968) [10, 1666 (1968)]
Elastic Properties of a $KMgF_3$ Single Crystal. (E) L. M. Reshchikova. 10, 2019 (1969) [10, 2558 (1968)]

RESHETNIKOVA, L. V.
Behavior of Cesium on the Faces of a Large Tungsten Single Crystal. (E) N. A. Gorbatyi, L. V. Reshetnikova, and V. M. Sultanov. 10, 940 (1968) [10, 1185 (1968)]

RESHINA, I. I.
Formation of Divalent Anion and Cation Impurity Complexes in KCl Crystals. (E) D. N. Mirlin and I. I. Reshina. 10, 895 (1968) [10, 1129 (1968)]

REUT, E. G.
Investigation of Charge Compensation Mechanisms in Scheelite-Type Crystals Activated with Pr^{3+} Ions. (E) A. M. Morozov, E. G. Reut, and A. I. Ryskin. 10, 393 (1968) [10, 502 (1968)]

REVAI, T.
Temperature Dependence of the Cubic Splitting in the EPR Spectrum of Fe^{3+} in $SrTiO_3$ Single Crystals. (E) T. Revai. 10, 2984 (1969) [10, 3744 (1968)]

REWAJ, T.
Temperature Dependence of the Cubic Splitting of the EPR Spectrum of Gd^{3+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 10, 1014 (1968) [10, 1272 (1968)]

REZ, I. S.
A New Crystal with a Large Electrooptical Effect. (E) A. S. Vasilevskaya, L. I. Kuznetsova, I. S. Rez, and A. S. Sonin. 10, 733 (1968) [10, 928 (1968)]

RODIN, A. I.
Influence of Nonequilibrium Carrier Screening on Polarization Processes in Ferroelectric SbSI. (E) A. A. Grekov, V. A. Lyakhovitskaya, A. I. Rodin, and V. M. Fridkin. 10, 1762 (1969) [10, 2239 (1968)]

RODIONOV, K. P.
Pressure Dependence of the Electron Effective Mass in InSb. (E) M. M. Aksel'rod, K. M. Demchuk, I. M. Tsidil'kovskii, E. L. Broide, and K. P. Rodionov. 10, 1733 (1969) [10, 2211 (1968)]

ROGOV, V. S.
Grüneisen Coefficient of an Almost-Degenerate Electron Gas. (T) V. S. Rogov. 10, 1188 (1968) [10, 1502 (1968)]

ROGOZEV, B. I.
Isomeric Shift of Sn^{119} Nuclei in Cu–Sn Alloys. (E) V. N. Bykov, L. M. Krizhanskii, B. I. Rogozev, I. I. Rudnev, and A. E. Fedorovskii. 10, 2267 (1969) [10, 2869 (1968)]

ROITBURD, A. L.
Nucleation of a New Phase in Solid Solutions. (T) A. L. Roitburd, A. G. Khachaturyan, and T. S. Plaksina. 10, 1684 (1968) [10, 2149 (1968)]
The Domain Structure of Crystals Formed in the Solid Phase. (E) A. L. Roitburd. 10, 2870 (1969) [10, 3619 (1968)]

ROITSIN, A. B.
Nonlinear Electric-Field Effects in Paramagnetic Resonance. (T/E) A. B. Roitsin. 10, 751 (1968) [10, 948 (1968)]

ROLOV, B. N.
Estimating the Dimensions of the Känzig Regions from Data Relating to the Anomalous Part of the Specific Heat of Ferroelectric Phase Transformations. (E) B. N. Rolov. 10, 2725 (1969) [10, 3441 (1968)]

ROMANOV, Yu. F.
Mössbauer Spectrum of Np^{237} after Alpha Decay of Am^{241} in a Thorium Lattice. (E) B. M. Aleksandrov, A. V. Kalyamin, A. S. Krivokhatskii, B. G. Lur'e, A. N. Murin, and Yu. F. Romanov. 10, 1494 (1968) [10, 1896 (1968)]
Calcium Stannate – A Source for Mössbauer Measurements. (E) A. V. Kalyamin, B. G. Lur'e, G. V. Popov, and Yu. F. Romanov. 10, 2522 (1969) [10, 3180 (1968)]

ROMANYUK, N. A.
Reflection Spectra of Rochelle Salt Crystals in the Vacuum Ultraviolet Range. (E) V. N. Vishnevskii, L. N. Kulik, and N. A. Romanyuk. 10, 217 (1968) [10, 280 (1968)]

ROZENBAUM, R. B.
Concentration-Dependent Line-Shift in Optical Spectra of Ruby. (T/E) A. A. Kaplyanskii, A. K. Przhevuskii, and R. B. Rozenbaum. 10, 1864 (1969) [10, 2370 (1968)]

ROZENBERG, Yu. I.
Molecular Motion in Solid Dioxane and Its Complexes. (E) Yu. I. Rozenberg. 10, 2379 (1969) [10, 3017 (1968)]

ROZHANSKII, V. N.
Multilayer Vacancy Dislocation Rings in Zinc. (E) V. N. Rozhanskii and I. A. Ragimov. 10, 1117 (1968) [10, 1408 (1968)]

ROZHITSKII, N. N.
Amplification of Luminescence in Antiferromagnetic Crystals of MnF_2 and $RbMnF_3$ in a Magnetic Field. (E/T) É. V. Matyushkin and N. N. Rozhitskii. 10, 1736 (1969) [10, 2214 (1968)]

ROZOV, M. N.
Estimate of Conditions of Ferroelectric Transition in Crystals Having the SbSI Structure. (T/E) S. N. Koikov and M. N. Rozov. 10, 2912 (1969) [10, 3672 (1968)]

ROZOVA, M. N.
Effective Fields in Crystals Having the Perovskite, Pyrochlore, and Rutile Structures. (T) S. N. Koikov and M. N. Rozova. 10, 2661 (1969) [10, 3389 (1968)]

RUBAL'SKAYA, É. V.
Ferromagnetic Resonance in Lithium Ferrite-Aluminate Crystals. Yu. M. Yakovlev, É. V. Rubal'skaya, and B. L. Lapovok. 10, 2301 (1969) [10, 2909 (1968)]

RUBAN, M. A.
Temperature Dependence of the Hyperfine Interaction Constants of F Centers in LiF. (E) N. P. Baran, M. F. Deigen, S. S. Ischenko, M. A. Ruban, and V. V. Udod. 10, 996 (1968) [10, 1250 (1968)]

Electron-Nuclear Double Resonance of A Centers in Mixed KCl + LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]

Quadrupole and Second-Order Effects in the Electron-Nuclear-Double-Resonance Spectra of F-Centers in KCl Due to Interactions with a K^{41} Isotope. (E/T) N. P. Baran, M. F. Deigen, V. Ya. Zevin, and M. A. Ruban. 10, 2640 (1969) [10, 3342 (1968)]

RUBANOVA, G. M.

Nonlinear Absorption in CdSe. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 10, 981 (1968) [10, 1235 (1968)]

RUBINSHTEIN, B. E.

Temperature Dependence of the First Magnetocrystalline Anisotropy Constant of Two-Sublattice Ferrimagnets. (E) B. E. Rubinshtein. 10, 1353 (1968) [10, 1715 (1968)]

RUDAKOV, A. P.

Variation of Polymer Elasticity with Deformation and Stress Relaxation. (E) A. P. Rudakov and M. I. Bessonov. 10, 2796 (1969) [10, 3519 (1968)]

RUD'KO, S. N.

Absorption Spectra of Exciton-Impurity Complexes in Silicon Carbide. (E) I. S. Gorban', A. P. Krokhmal', and S. N. Rud'ko. 10, 312 (1968) [10, 396 (1968)]

RUDNEV, L. I.

Isomeric Shift of Sn^{119} Nuclei in Cu–Sn Alloys. (E) V. N. Bykov, L. M. Krizhanskii, B. I. Rogozev, I. I. Rudnev, and A. E. Fedorovskii. 10, 2267 (1969) [10, 2869 (1968)]

RUKHADZE, A. A.

Oscillations of a Plasma Medium in an External Electric Field. (T) S. P. Bakanov and A. A. Rukhadze. 10, 378 (1968) [10, 482 (1968)]

RUMSH, M. A.

X-Ray Spectroscopic Study of Titanium Monoxide in the Homogeneous Region and of Titanium Nitride. (E) I. A. Brytov, M. A. Rumsh, and A. S. Parobets. 10, 621 (1968) [10, 794 (1968)]

RUMYANTSEV, D. D.

Development of a Discharge in a Solid Dielectric with Barrier. (E) D. D. Rumyantsev and N. M. Torbin. 10, 1721 (1969) [10, 2197 (1968)]

RUMYANTSEV, V. V.

Classification and Shape of Characteristic Energy Loss Lines. (T) V. V. Rumyantsev. 10, 1793 (1969) [10, 2275 (1968)]

RUSANOV, M. M.

Variational Calculation of the Energy Levels of a Hydrogen-Like System in a Magnetic Field. (T) E. P. Pokatilov and M. M. Rusanov. 10, 2458 (1969) [10, 3117 (1968)]

RYABOV, V. A.

Theory of the Shadow Effect. (T) V. A. Ryabov. 10, 2720 (1969) [10, 3436 (1968)]

RYAZANOV, V. S.

Cross Sections for the Raman Scattering of Light in GaP and CdS Crystals. (E) V. S. Ryazanov, V. S. Gorelik, G. V. Peregudov, M. M. Sushchinskii, and V. A. Chirkov. 10, 1508 (1968) [10, 1909 (1968)]

RYAZANTSEV, K. A.

Coherent Amplification of Spin Waves in Ferrites. (T) I. A. Gilinskii and K. A. Ryazantsev. 10, 2877 (1969) [10, 3628 (1968)]

RYBALKO, F. P.

Features of the Macroconcentration of Plastic Deformation in Zinc Single Crystals during Alternating Torsion. (E) F. P. Rybalko, V. G. Zubkov, and R. I. Shevchenko. 10, 308 (1968) [10, 391 (1968)]

RYBALKO, V. F.

Oxidation of Tungsten at Room Temperature. (E) V. F. Rybalko, V. Ya. Kolot, and Ya. M. Fogel'. 10, 2518 (1969) [10, 3176 (1968)]

RYBIN, Yu. A.

Germanium Single-Crystal Production in a Rotating Container. (E) A. N. Kirgintsev and Yu. A. Rybin. 10, 1857 (1969) [10, 2361 (1968)]

RYCHKOVA, S. V.

Effect of Disruptions of Periodicity, Which Arise Upon Breakup of a Solid Solution of Oxygen in Silicon, on the Integral Characteristics of Anomalous X-Ray Transmission. (E) V. M. Al'tshuller and S. V. Rychkova. 10, 258 (1968) [10, 322 (1968)]

Decomposition of a Solid Solution of Antimony in Heavily-Doped Silicon. (E) V. M. Al'tshuller, L. I. Zhestkova, A. U. Kruchinin, and S. V. Rychkova. 10, 2017 (1969) [10, 2556 (1968)]

RYSAKOV, V. M.

Mandel'shtam-Brillouin Scattering in Crystals with Amplification of Sound Waves. (T) V. M. Rysakov. 10, 2231 (1969) [10, 2829 (1968)]

RYSKIN, A. I.

Investigation of Charge Compensation Mechanisms in Scheelite-Type Crystals Activated with Pr^{3+} Ions. (E) A. M. Morozov, E. G. Reut, and A. I. Ryskin. 10, 393 (1968) [10, 502 (1968)]

Effect of Bonding Character on the Spectra of Co^{2+} and Ni^{2+} Ions in ZnS Crystals Containing Stacking Faults. (E) S. A. Kazanskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1899 (1969) [10, 2415 (1968)]

Structure of Zinc Sulfide Single Crystals Grown from the Melt under Pressure. (E) G. V. Aman'eva, K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1417 (1968) [10, 1800 (1968)]

RYVKIN, S. M.

Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]

Effect of Electric Field and Temperature on Exciton Radiation Intensity in GaP. (E) B. M. Ashkinadze, I. P. Kretsu, S. L. Pyshkin, S. M. Ryvkin, and I. D. Yaroshetskii. 10, 2921 (1969) [10, 3681 (1968)]

RYZHII, V. I.

Quantum Oscillations of Electrical Conductivity of Thin Films in a Magnetic Field. (T/E) V. I. Ryzhii. 10, 2286 (1969) [10, 2887 (1968)]

RYZHIKOV, I. V.

Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]

Blue Photo- and Electroluminescence of Epitaxial Silicon Carbide Films. (E) V. I. Pavlichenko, I. V. Ryzhikov, Yu. M. Suleimanov, and Yu. M. Shvaidak. 10, 2205 (1969) [10, 2801 (1968)]

Energy Spectrum of Boron in Silicon Carbide. (E) V. I. Pavlichenko and I. V. Ryzhikov. 10, 2977 (1969) [10, 3737 (1968)]

RYZHOV, Yu. A.

Mechanism of Sputtering of Solids. (E) B. M. Gurmin, T. P. Martynenko, and Yu. A. Ryzhov. 10, 324 (1968) [10, 411 (1968)]

Correlated Chains of Atomic Collisions in [100] Directions in Cubic Face-Centered Crystals. (T) N. S. Dinyaeva, Yu. V. Martynenko, and Yu. A. Ryzhov. 10, 2271 (1969) [10, 2873 (1968)]

RZAEV, K. I.

Influence of Temperature on the Elastic Constants of a Te Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 10, 507 (1968) [10, 643 (1968)]

SAAKOV, É. O.

Nuclear Magnetic Resonance in Thin Cobalt Films. (E) V. B. Ustinov, S. P. Repnikov, É. O. Saakov, and V. A. Teryaev. 10, 1264 (1968) [10, 1589 (1968)]

SAAKYAN, V. A.

Influence of Strong Doping on Thermal Properties of $PbTe_{1-x}Se_{1-x}$. (E) V. A. Saakyan and V. V. Tikhonov. 10, 724 (1968) [10, 920 (1968)]

Temperature Dependence of Forbidden-Band Width in $PbTe_xSe_{1-x}$ Solid Solutions. (E) E. D. Devyatkova and V. A. Saakyan. 10, 1239 (1968) [10, 1563 (1968)]

SABLINA, K. A.

The Magnetic Properties of Copper Ferrite Single Crystals. (E) G. A. Petrakovskii, K. A. Sablina, and É. M. Smokotin. 10, 2005 (1969) [10, 2544 (1968)]

SABUROVA, R. V.
Acoustic Paraelectric Resonance. (T) R. V. Saburova. 10, 236 (1968) [10, 299 (1968)]
Interaction of Electric Dipoles through the Phonon Field. (T) R. V. Saburova. 10, 450 (1968) [10, 572 (1968)]

SAFAROV, V. I.
Interaction of Excitons with Optical Phonons in the Photoconductivity Process. (E) B. V. Novikov, V. I. Safarov, and M. L. Shubnikov. 10, 2484 (1969) [10, 3144 (1968)]

SAFRONOV, S. N.
Double Modulation Method of Measuring the Width of a Spin Packet for an Inhomogeneously Broadened EPR Line. (T) V. I. Muromtsev, S. N. Safronov, U. I. Safronova, and I. G. Akhvlediani. 10, 1167 (1968) [10, 1475 (1968)]
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]

SAFRONOVA, U. I.
Double Modulation Method of Measuring the Width of a Spin Packet for an Inhomogeneously Broadened EPR Line. (T) V. I. Muromtsev, S. N. Safronov, U. I. Safronova, and I. G. Akhvlediani. 10, 1167 (1968) [10, 1475 (1968)]

SAIKIN, K. S.
Relation between the Magnetic Dipole and Electric Quadrupole Interactions of the Nuclei in Metallic Aluminum. (E) K. S. Saikin, O. A. Andreeva, Yu. L. Popov, F. I. Bashirov, and R. A. Dautov. 10, 2558 (1969) [10, 3233 (1968)]

SAITKULOV, I. G.
Luminescence Spectra of MeF_3 Single Crystals Activated by Erbium. (E) I. B. Aizenberg, L. D. Livanova, I. G. Saitkulov, and A. L. Stolov. 10, 1595 (1969) [10, 2030 (1968)]
Interaction between Er^{3+} Impurity Centers in CaF_2 and CdF_2 Crystals. (E/T) I. G. Saitkulov and A. L. Stolov. 10, 1694 (1969) [10, 2163 (1968)]

SAKSONOV, Yu. G.
Magnetic Properties and Crystal Structure of the Solid Solution System $Mg_2SnO_4-MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]
Geometry of Exchange Bonds in Bismuth–Calcium–Vanadium–Iron Garnet. (E) E. L. Dukhovskaya and Yu. G. Saksonov. 10, 2613 (1969) [10, 3308 (1968)]

SAKUN, V. P.
The Effect of Quasilocalizable Oscillations on the Spin-Lattice Relaxation of Some Rare-Earth Ions in a CaF_2 Lattice. (T) K. K. Pukhov and V. P. Sakun. 10, 1148 (1968) [10, 1448 (1968)]

SALMONOV, V. M.
Thermal Radiation from Transparent Dielectrics during Their Fracture under the Action of Laser Light. (E) V. M. Likhachev, V. M. Salmanov, and I. D. Yaroshetskii. 10, 227 (1968) [10, 290 (1968)]
Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]

SALOMATOV, V. N.
Lattice Distortion and Energies of Bonds between Tl^+ Centers and Other Anions in Alkali Halide Crystals. (T) N. N. Kristofel' and V. N. Salomatov. 10, 1749 (1969) [10, 2227 (1968)]
Lattice Distortion and Energies of Bonds between Tl^+ Centers and Other Light Anions in NaCl-Type Crystals. (E) N. N. Kristofel' and V. N. Salomatov. 10, 1778 (1969) [10, 2255 (1968)]

SALUEN'YA, S. S.
Laser Radiation-Induced Breakdown Processes in Polymers at the Load Limit. (E) N. P. Novikov, S. S. Saluen'ya, F. N. Chernyavskii, and Yu. I. Yudin. 10, 2990 (1969) [10, 3751 (1968)]

SAMOILOV, G. G.
Photodegradation Kinetics of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 866 (1968) [10, 1094 (1968)]
Temperature Dependence of the Photodecomposition of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 1363 (1968) [10, 1729 (1968)]
Photomechanical Destruction and Lifetime of Irradiated Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 2395 (1969) [10, 3039 (1968)]

SAMOILOVICH, M. I.
Effect of a Disperse Nitrogen Impurity on the Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, M. I. Samoilovich, and K. F. Vorozheikin. 10, 1723 (1969) [10, 2200 (1968)]

SAMOKHVALOV, A. A.
Microwave-Frequency Dielectric Properties of Divalent Europium Oxides. (E) A. A. Samokhvalov, S. A. Ismailov, and A. Ya. Afanas'ev. 10, 334 (1968) [10, 425 (1968)]
The Magnetic Properties of $EuLu_2O_4$ at Low Temperatures. (E) A. A. Samokhvalov, Yu. N. Morozov, V. C. Bamburov, N. V. Volkenshtein, and T. D. Zotov. 10, 1729 (1969) [10, 2206 (1968)]
Optical Properties Associated with the Conduction Mechanism of Ferrites. (E) A. A. Samokhvalov, N. M. Tutikov, and G. P. Skornyakov. 10, 2172 (1969) [10, 2760 (1968)]
Electrical Conductivity of Ferrites in High Electric Fields at Superhigh Frequency. (E) S. A. Ismailov, A. B. Davydov, and A. A. Samokhvalov. 10, 2505 (1969) [10, 3164 (1968)]

SAMSONENKO, N. D.
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]

SAMULIONIS, V. I.
Nonlinearity of the Acoustoelectric Interaction in CdS. (E) É. P. Garshka, V. I. Samulionis, B.-P. P. Ketis, and A. S. Zhyulpa. 10, 480 (1968) [10, 611 (1968)]

SANADZE, T. I.
EPR Spectrum and Spin-Lattice Relaxation in Irradiated Polyethylene. (E) L. Ya. Dzhabakhishvili, G. D. Ketiladze, and T. I. Sanadze. 10, 2954 (1969) [10, 3715 (1968)]

SANINA, V. A.
Magnetic Resonance in the Uniaxial Ferromagnet $RbNiF_3$. (E) E. I. Golovenchits, V. A. Sanina, and A. G. Gurevich. 10, 2334 (1969) [10, 2956 (1968)]

SARALIDZE, Z. K.
Motion of a Dislocation Loop in an Ionic Crystal in an External Electric Field. (T) I. G. Margvelashvili, R. A. Polyan, and Z. K. Saralidze. 10, 2475 (1969) [10, 3134 (1968)]

SAVINOV, E. P.
Investigation of Statistics of Electron Emission from Solids. (E) V. N. Shchemelev and E. P. Savinov. 10, 1502 (1968) [10, 1904 (1968)]

SAVVINYKH, S. K.
Theory of a Gradient Instability of a Current in Semiconductors. (T) R. Z. Vitlina and S. K. Savvinykh. 10, 1292 (1968) [10, 1634 (1968)]

SAZONOV, A. M.
Acoustic Excitation of I = 3/2 Nuclear Spin Systems. (T/E) A. M. Sazonov and S. B. Grigor'ev. 10, 1521 (1969) [10, 1927 (1968)]

SEDEL'NIKOVA, N. D.
Influence of Impurities on the Electrical Properties of Barium Nitrate. (E) E. V. Khamskii, B. M. Freidin, and N. D. Sedel'nikova. 10, 2013 (1969) [10, 2551 (1968)]

SEDLETSKAYA, N. S.
Effect of Anisotropy on the Magnetostatic Spectrum of a Ferrite Sphere. (E) A. I. Pil'shchikov and N. S. Sedletskaya. 10, 1035 (1968) [10, 1298 (1968)]

SELEZNEV, V. N.
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. (E) G. A. Petrakovskii, I. K. Pukhov, V. N. Seleznev, and A. I. Drokin. 10, 2528 (1969) [10, 3186 (1968)]

SEMILETOV, S. A.
Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]

Evaporation Kinetics of GaAs. (E) S. A. Aitkhozin, S. A. Semiletov, and V. V. Luder. 10, 1005 (1968) [10, 1259 (1968)]

SEISYAN, R. P.
Ionization of Diamagnetic Excitons and Quantum Effects in the Valence Band of Germanium. (E) B. P. Zakharchenya, R. P. Seisyan, and A. V. Varfolomeev. 10, 2493 (1969) [10, 3153 (1969)]

SEMUSHKIN, G. B.
The Effect of Dislocations Upon the Development of Electrolytic Crystal Coloration. (E) V. D. Belyaev, G. B. Semushkin, and A. N. Tsikin. 10, 921 (1968) [10, 1160 (1968)]

SERDYUK, A. D.
Spin-Lattice Relaxation in M_3X Superconducting Compounds with Two Overlapping Energy Bands. (T) I. I. Fal'ko and A. D. Serdyuk. 10, 541 (1968) [10, 688 (1968)]

SERDYUK, V. V.
Electron-Microscope Investigation of CdS Single Crystals Subjected to Heat Treatment. (E) V. S. Babinchuk and V. V. Serdyuk. 10, 509 (1968) [10, 645 (1968)]
Saturation Mechanism of the Photocurrent and the Occurrence of Relaxation Vibration in CdSe Single Crystals. (E/T) V. V. Serdyuk, G. G. Chemeresyuk, and I. A. Karetnin. 10, 2201 (1969) [10, 2797 (1968)]
Trapping Mechanism of the Isothermal Decay of the Photocurrent of Cadmium Sulphide Single Crystals. (E/T) V. V. Zomov and V. V. Serdyuk. 10, 2936 (1969) [10, 3675 (1968)]

SEREBRYAKOV, Yu. A.
Quantum Photoemission Yield of Cadmium Selenide and Cadmium Sulfide Layers. (E/T) V. K. Adamchuk and Yu. A. Serebryakov. 10, 2749 (1969) [10, 3466 (1968)]

SEREBRYANAYA, N. R.
Phase Transitions in Group IV-VI Compounds at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 10, 574 (1968) [10, 733 (1968)]

SEREGIN, P. P.
State of Impurity Iron Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 728 (1968) [10, 923 (1968)]
Investigation of the Charged States of Iron in Some Cobalt Compounds Using the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 1000 (1968) [10, 1254 (1968)]
Investigation of the Valence States of Tin in Tin-Containing Glasses by Means of the Mössbauer Effect. (E) I. P. Polozova and P. P. Seregin. 10, 1996 (1969) [10, 2536 (1968)]
An Investigation of the Charged States of Iron in Cobalt Oxides by the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 2066 (1969) [10, 2624 (1968)]
Reactor-Irradiated Tin Compounds Studied by the Nuclear Gamma Resonance Method. (E) A. N. Murin, B. G. Lur'e, S. I. Bondarevskii, and P. P. Seregin. 10, 2207 (1969) [10, 2803 (1968)]
Mössbauer Effect Study of Reactor Irradiation of Tin Monoxide. (E) S. I. Bondarevskii and P. P. Seregin. 10, 2736 (1969) [10, 3454 (1968)]

SERGEEV, O. T.
Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]

SEVER, G. N.
Even Photomagnetic Effect in Cuprous Oxide Single Crystals. (E) G. N. Sever. 10, 1824 (1969) [10, 2318 (1968)]

SHABANOVA, L. A.
Anomalies of Elastic Properties and Internal Friction of a CoO Single Crystal. (E) K. S. Aleksandrov, L. A. Shabanova, and L. M. Reshchikova. 10, 1316 (1968) [10, 1668 (1968)]

SHABEL'NIKOVA, A. É.
Investigation of the Field-Dependent Electron Emission from Porous MgO Films. (E) N. L. Yasnopol'skii and A. É. Shabel'nikova. 10, 75 (1968) [10, 103 (1968)]

SHADRICHEV, E. V.
Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]

SHADRIN, E. B.
Spectrum of Exciton Complexes in Hexagonal ZnS Crystals. (E) E. F. Gross, L. G. Suslina, and E. B. Shadrin. 10, 818 (1968) [10, 1036 (1968)]

SHAKMANOV, V. V.
A Microdiffraction Investigation of the Domain in Barium Titanate Films. (E) V. V. Shakmanov and G. V. Spivak. 10, 802 (1968) [10, 1016 (1968)]

SHALYT, S. S.
Galvanomagnetic Properties of Tellurium at Very Low Temperatures. (E) V. A. Noskin, I. I. Farbshtein, and S. S. Shalyt. 10, 881 (1968) [10, 1112 (1968)]
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]
Phonon Drag in Antimony. (E) N. A. Red'ko and S. S. Shalyt. 10, 1233 (1968) [10, 1557 (1968)]
Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]
Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Oskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]

SHAMUKOV, N. A.
Acoustic Saturation of Lithium Nuclear Magnetic Resonance in Lithium Niobate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, and N. A. Shamukov. 10, 2239 (1969) [10, 2839 (1968)]
Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]

SHANINA, B. D.
Dynamics of EPR, Electron Nuclear Double Resonance (ENDOR), and NMR for Centers Having $S = I = 1/2$. (T) V. L. Hochmann, V. Ya. Zevin, and B. D. Shanina. 10, 269 (1968) [10, 337 (1968)]
Equations of Motion of Macroscopic Spin Quantities for Centers with $S = I = 1/2$. (T) V. Ya. Zevin and B. D. Shanina. 10, 930 (1968) [10, 1173 (1968)]

SHAPIRO, B. I.
Impedance of an Inhomogeneous Crystal. (T) L. É. Gurevich, I. V. Ioffe, and B. I. Shapiro. 10, 1860 (1969) [10, 2365 (1968)]

SHAPIRO, R. Kh.
Planar Effect for Helicon Waves in a Large Ferromagnetic Semiconductor. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 1745(1969) [10, 2223 (1968)]
Electromagnetic Excitation of Magnetostatic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 2980 (1969) [10, 3740 (1968)]

SHAPIRO, V. E.
Magnetoelastic Instability during Uniform Precession in a Ferromagnet. (T) R. G. Khlebopros and V. E. Shapiro. 10, 487 (1968) [10, 620 (1968)]
Low-Frequency Ferromagnetic Resonance Anharmonicity in a Perpendicularly-Polarized Film. (E) V. E. Shapiro. 10, 1009 (1968) [10, 1265 (1968)]

SHARLAI, B. M.
Elastic Moduli of CdSb. (E) L. I. Anatychuk, V. D. Iskra, I. M. Rarenko, and B. M. Sharlai. 10, 2702 (1969) [10, 3419 (1968)]

SHASKOL'SKAYA, M. P.
Temperature Dependence of Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, Ya. M. Solfer, and M. P. Shaskol'skaya. 10, 1549 (1969) [10, 1968 (1968)]

SHCHEMELEV, V. N.
Investigation of Statistics of Electron Emission from Solids. (E) V. N. Shchemelev and E. P. Savinov. 10, 1502 (1968) [10, 1904 (1968)]

SHCHETININ, M. P.
Magnetic Properties of HgI_2 Single Crystals. (E) L. P. Strakhov, M. P. Shchetinin, and B. A. Kazennov. 10, 1770 (1969) [10, 2248 (1968)]

SHCHUROVA, A. D.
Anisotropy of Magnetization of the Hexagonal Ferrite $BaCo_2TiFe_{11}O_{22}$. (E) T. M. Perekalina, A. D. Shchurova, and V. P. Cheparin. 10, 2460 (1969) [10, 3119 (1968)]

SHEINKMAN, M. K.
Formation of New Local Centers in CdS Single Crystals in the Presence of Free Electrons and Holes. (E) N. E. Korsunskaya, I. V. Markevich, and M. K. Sheinkman. 10, 409 (1968) [10, 522 (1968)]
Nature of Infrared Luminescence ($\lambda_m = 1.2\,\mu$) in CdSe Single Crystals and Its Relationship to Photoconductivity. (E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 1394 (1968) [10, 1769 (1968)]
Mechanisms for Orange, Red, and Infrared Photoluminescence in CdS Single Crystals and Parameters of the Corresponding Luminescence Centers. (T/E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 2069 (1969) [10, 2628 (1968)]

SHEKHTER, D. H.
Quantum Theory of Free-Electron Dielectric Constant in Semiconductors. (T) A. G. Aronov, G. E. Pikus, and D. Sh. Shekhter. 10, 645 (1968) [10, 822 (1968)]

SHEKUN, L. Ya.
Paramagnetic Resonance and Spin-Lattice Relaxation of Er^{3+} and Tb^{3+} Ions in the Crystal Lattice of $CaWO_4$. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 468 (1968) [10, 595 (1968)]
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Spin-Lattice Relaxation of Trigonal Dy^{3+} Centers and Cubic Yb^{3+} Centers. (E/T) L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin. 10, 843 (1968) [10, 1065 (1968)]
Paramagnetic Resonance and Spin Lattice Relaxation of Tb^{3+} Ions in SrF_2 Single Crystals. (T/E) A. A. Antipin, L. D. Livanova, and L. Ya. Shekun. 10, 1025 (1968) [10, 1286 (1968)]
Spin-Lattice Relaxation of Ce^{3+} and Yb^{3+} Ions in Single Crystals of $CaWO_4$ and $PbMoO_4$. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 1136 (1968) [10, 1433 (1968)]

SHELEKIN, Yu. L.
Electron Paramagnetic Resonance of "Parallel" Chrome Ion Pairs in Ruby. (E) Yu. L. Sheiekhin, M. P. Votinov, and B. P. Berkovskii. 10, 2808 (1969) [10, 3535 (1968)]

SHELYKH, A. I.
The Hall Effect in V_2O_3 Single Crystals in the Metallic Conductivity Region. (E) V. P. Zhuze, A. A. Andreev, and A. I. Shelykh. 10, 2914 (1969) [10, 3674 (1968)]

SHENDER, E. F.
Instability of a Temperature Gradient in a Highly Conductive Crystal of Low Symmetry. (T) L. É. Gurevich and E. F. Shender. 10, 491 (1968) [10, 625 (1968)]

SHEPELEV, V. I.
The Effect of Paramagnetic Centers on the NMR Spectra of Polymers Having Conjugated Bonds and Their Complexes. (E) A. I. Maklakov, K. A. Gol'dgammer, V. I. Shepelev, and B. G. Tarasov. 10, 2704 (1969) [10, 3421 (1968)]

SHERLE, A. I.
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]

SHERMAN, A. B.
Excitation and Propagation of Longitudinal Elastic Waves with Frequencies from 200 to 2000 MHz in Lithium Niobate Crystals. (E) V. V. Lemanov, A. B. Sherman, G. A. Smolenskii, N. B. Angert, and V. P. Klyuev. 10, 1357 (1968) [10, 1720 (1968)]

SHERMERGOR, T. D.
Description of Intercrystallite Thermoelastic Internal Friction Using the Von Karman Correlation Function. (T) T. D. Shermergor and V. G. Baryshnikov. 10, 1709 (1969) [10, 2183 (1968)]
Nonsteady-State Amplitude-Dependent Internal Friction. (T) T. D. Shermergor and M. V. Belov. 10, 2058 (1969) [10, 2612 (1968)]

SHEVCHENKO, R. I.
Features of the Macroconcentration of Plastic Deformation in Zinc Single Crystals during Alternating Torsion. (E) F. P. Rybalko, V. G. Zubkov, and R. I. Shevchenko. 10, 308 (1968) [10, 391 (1968)]

SHEVLYAGIN, K. V.
Losses Due to the Excitation and Propagation of Magnetoelastic Waves in a Nonuniform Field. (E/T) S. A. Mironov, A. G. Gurevich, K. V. Shevlyagin, and B. M. Lebed'. 10, 1408 (1968) [10, 1788 (1968)]
Excitation and Amplification of Magnetoelastic Waves. (E/T) K. V. Shevlyagin, S. A. Mironov, A. G. Gurevich, and B. M. Lebed'. 10, 1852 (1969) [10, 2353 (1968)]

SHESTOPALOV, L. M.
Breakdown in Alkali-Halide Crystals Caused by Laser Radiation. (E) N. I. Alekseev, N. V. Volkova, V. A. Likhachev, and L. M. Shestopalov. 10, 1890 (1969) [10, 2403 (1968)]

SHIL'NIKOV, Yu. R.
Excitation Time of Spin Waves in First- and Second-Order Nonlinear Processes. (E) V. I. Churkin, Yu. R. Shil'nikov, and N. N. Chelishchev. 10, 1474 (1968) [10, 1876 (1968)]

SHIPATOV, É. T.
Influence of the Crystal Structure on the Loss of Energy by Fast Protons in Single Crystals of Alkali Halides. (E) É. T. Shipatov and B. A. Kononov. 10, 670 (1968) [10, 854 (1968)]
Channeling of High Energy Protons in Ionic Single Crystals. (E/T) É. T. Shipatov. 10, 2132 (1969) [10, 2709 (1968)]

SHILNIKOV, Yu. R.
Ferromagnetic Resonance in Hexaferrite Single Crystals with an Easy Anisotropy Plane. (E) Yu. M. Yakoviev, Yu. R. Shil'nikov, and N. N. Agapova. 10, 745 (1968) [10, 942 (1968)]

SHIPULO, G. P.
Some Aspects of the Laser Mechanism in $CaF_2{:}Dy^{2+}$ Crystals. (E) E. M. Zolotov, A. M. Prokhorov, and G. P. Shipulo. 10, 848 (1968) [10, 1071 (1968)]
Thermal Investigation on Nd^{3+}-Doped Yttrium Aluminum Garnet. (E) V. A. Sychugov and G. P. Shipulo. 10, 2224 (1969) [10, 2821 (1968)]

SHISHELOV, A. A.
Correlation between Changes in the Lattice Constant and Electrical Conductivity of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva and A. A. Shishelov. 10, 1002 (1968) [10, 1256 (1968)]

SHIVRIN, O. N.
Quenching Defects and Hardening of Polycrystalline Copper. (E) I. A. Malinenko and O. N. Shivrin. 10, 2507 (1969) [10, 3166 (1968)]

SHKLOVSKII, B. I.
Absorption of Sound in Crystals with Quasilocal States. (T) B. I. Shklovskii. 10, 498 (1968) [10, 634 (1968)]
Nonlinear Thermal Conductivity of Dielectrics in the Region of Viscous Flow of a Phonon Gas. (T) Kh. Nil'sen and B. I. Shklovskii. 10, 2857 (1969) [10, 3602 (1968)]

SHKLYAREVSKII, I. N.
Anisotropy of Chromium Films Prepared by the Oblique Incidence of a Molecular Beam on a Substrate. (E) V. P. Kostyuk and I. N. Shklyarevskii. 10, 250 (1968) [10, 315 (1968)]
Structure and Optical Properties of Gallium Layers Precipitated in Vacuum. (E) I. Yu. Rapp, I. N. Shklyarevskii, and R. G. Yarovaya. 10, 1780 (1969) [10, 2257 (1968)]
Method of Investigating the Oxidation Kinetics of Metals. (E) I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii. 10, 2439 (1969) [10, 3097 (1968)]

SHMIGLYUK, M. I.
Effects of Optical Phonons on the Shape of the Wannier-Mott Exciton Absorption Band. (T) S. A. Moskalenko, M. I. Shmiglyuk, and B. I. Chinik. 10, 279 (1968) [10, 351 (1968)]

SHMULEVICH, R. S.
Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Boikova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Taypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

SHMURAK, S. Z.
An Investigation of Deformation Luminescence. (E/T) S. Z. Shmurak. 10, 1526 (1969) [10, 1934 (1968)]

SHNYUKOV, V. F.
Investigation of the Thermal Dissociation of Alkaline-Earth Metal Oxides in High Vacuum. (E) G. Ya. Pikus, V. F. Shnyukov, and B. P. Nikonov. 10, 93 (1968) [10, 125 (1968)]

SI, SHRINIVASAN
Influence of Chemical Homogeneity upon the Critical Parameters of Certain Nickel/Zinc Ferrites. (E) A. N. Goryaga, N. N. Oleinikov, Yu. D. Tret'yakov, and Shrinivasan Si. 10, 2054 (1969) [10, 2608 (1968)]

SHTOL'BERG, A. A.
Dislocation Bowing and the Frank-Read Source. (T) G. N. Dubnova, V. L. Indenbom, and A. A. Shtol'berg. 10, 1387 (1968) [10, 1760 (1968)]

SHUBNIKOV, M. L.
Interaction of Excitons with Optical Phonons in the Photoconductivity Process. (E) B. V. Novikov, V. I. Safarov, and M. L. Shubnikov. 10, 2484 (1969) [10, 3144 (1968)]

SHUL'MAN, A. R.
Elastic Reflection of Electrons from Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 518 (1968) [10, 655 (1968)]

Angular Dependence of Secondary-Emission Characteristics of Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1246 (1968) [10, 1570 (1968)]

Angular Dependence of the Secondary Electron Emission Coefficient of Single-Crystal Silicon in the Range of Incident Electron Energy from 100 to 2000 eV. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1512 (1968) [10, 1913 (1968)]

SHUL'PINA, I. L.
Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

Investigation of Defects in InSb Single Crystals by X-Ray Topographic Methods. (E) T. I. Ol'khovikova and I. L. Shul'pina. 10, 1678 (1969) [10, 2141 (1968)]

SHUR, M. S.
Possibility of Instability in Ferroelectric Crystals Having Semiconducting Properties. (T) M. S. Shur. 10, 2087 (1969) [10, 2652 (1968)]

Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

Vibrational Spectrum of Crystals Having the Rutile Structure, and Nonanalytic Behavior of the Limiting Dipole Frequencies. (T) M. S. Shur and Yu. N. Tsarev. 10, 2293 (1969) [10, 2899 (1968)]

Strong-Field Domain Parameter Change Times during Small Displacement Field Changes. (T) M. S. Shur. 10, 2479 (1969) [10, 3138 (1968)]

Theory of Electric Induction Waves in Ferroelectric Semiconductor Crystals. (T) M. S. Shur. 10, 2827 (1969) [10, 3560 (1968)]

Types of Electric Induction Waves in Ferroelectric Semiconductors with a First-Order Phase Transition at Temperatures above the Transition Temperature. (T) M. S. Shur. 10, 2925 (1969) [10, 3684 (1968)]

SHUR, Ya. S.
Nature of the High-Coercivity State in Alloys of the Mn–Ga System. (E) Ya. S. Shur, G. S. Kandaurova, and A. V. Deryagin. 10, 1923 (1969) [10, 2449 (1968)]

Magnetic Properties of Mn–Ga Alloy Powders. (E) A. V. Deryagin, G. S. Kandaurova, and Ya. S. Shur. 10, 2454 (1969) [10, 3113 (1968)]

SHVAIDAK, Yu. M.
Blue Photo- and Electroluminescence of Epitaxial Silicon Carbide Films. (E) V. I. Pavlichenko, I. V. Ryzhikov, Yu. M. Suleimanov, and Yu. M. Shvaidak. 10, 2205 (1969) [10, 2801 (1968)]

SHVARTSMAN, G. I.
Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium-Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]

SIBILEV, A. I.
Molecular Motion in Polyethylene and Polyethyleneterephthalate. (E) G. P. Gordeev and A. I. Sibilev. 10, 2062 (1969) [10, 2618 (1968)]

SIEROCZYNSKA-WOJAS, B.
External Photoelectric Effect in Al Single Crystals. (E) B. Sieroczynska-Wojas. 10, 544 (1968) [10, 693 (1968)]

SIGAL, M. A.
Intrinsic Ferromagnetic Resonance in Powder of Magnetoplumbite. (E) T. P. Velichko and M. A. Sigal. 10, 1987 (1969) [10, 2528 (1968)]

SIMASHKO, S. G.
Relevation of Dislocation Etch Pits in Sodium Chloride Single Crystals Deformed along the Cube Plane. (E) O. V. Klyavin, S. G. Simashko, and A. V. Stepanov. 10, 2102 (1969) [10, 2671 (1968)]

SINII, I. G.
Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]

SINYAKOV, E. V.
Partial Polarization Reversal Processes in $BaTiO_3$ Single Crystals Subjected to Square Bipolar Pulses. (E) E. V. Sinyakov and E. F. Dudnik. 10, 219 (1968) [10, 282 (1968)]

Relaxation Processes in $BaTiO_3$ Single Crystals Subjected to Unidirectional Mechanical Pressure Pulses. (E) E. V. Sinyakov, S. A. Plerova, and G. V. Barinov. 10, 415 (1968) [10, 529 (1968)]

SIROTIN, Yu. I.
Theory of Second-Order Phase Transitions of the Displacive Type. (T) Yu. I. Sirotin and L. M. Mikhel'son. 10, 1450 (1968) [10, 1843 (1968)]

SIVERS, L. I.
Adsorption, Migration, and Evaporation of Yttrium on a Tungsten Single Crystal. (E) B. M. Palyukh and L. L. Sivers. 10, 1585 (1969) [10, 2018 (1968)]

The Effect of a Field on the Equilibrium Concentration of Yttrium Atoms Adsorbed on a Tungsten Point. (E) B. M. Palyukh and L. L. Sivers. 10, 2962 (1969) [10, 3723 (1968)]

SIZOV, R. A.
Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressure. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]

SIZOV, V. A.
Neutron Diffraction Study of the Hexagonal Ferrite $Ba_2Zn_2Al_{2.4}Fe_{9.6}O_{22}$. (E) N. N. Aganova, V. A. Sizov, and I. I. Yamzin. 10, 2258 (1969) [10, 2859 (1968)]

Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressures. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]

SKORNYAKOV, G. P.
Optical Properties Associated with the Conduction Mechanism of Ferrites. (E) A. A. Samokhvalov, N. M. Tutikov, and G. P. Skornyakov. 10, 2172 (1969) [10, 2760 (1968)]

SKRYABIN, Yu. N.
Theory of Relaxation Processes in Ferromagnets Containing Impurities. (T) E. A. Turov and Yu. N. Skryabin. 10, 2586 (1969) [10, 3271 (1968)]

SLUTSKER, A. I.
Orientational Changes of Structure in Polyethylene. (E) S. Nizamidinov and A. I. Slutsker. 10, 382 (1968) [10, 487 (1968)]

Investigation of the Density of Layers Separating Crystallites in Oriented Polymers. (E) V. S. Kuksenko and A. I. Slutsker. 10, 657 (1968) [10, 838 (1968)]

SMEKALOVA, K. P.
X-Ray Diffraction Study of HgTe. (E) V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova. 10, 2447 (1969) [10, 3106 (1968)]

SMIRNOV, B. I
Thermal Conductivity of Plastically Deformed LiF Crystals. (E) I. A. Smirnov and B. I. Smirnov. 10, 244 (1968) [10, 307 (1968)]
Formation of Point Defects by the Plastic Deformation of LiF Crystals. (E) G. A. Andreev and B. I. Smirnov. 10, 1336 (1968) [10, 1693 (1968)]
Mechanical Characteristics and the Dislocation Structure of LiF Crystals Deformed by Slip along One System of Crystallographic Planes. (T/E) B. I. Smirnov. 10, 2117 (1969) [10, 2689 (1968)]
Change in Dislocation Structure in Slip Bands of LiF Crystals upon Annealing. (E) I. N. Zimkin and B. I. Smirnov. 10, 2534 (1969) [10, 3192 (1968)]
SMIRNOV, B. P.
Thermal Conductivity and Lorenz Number of Solid and Liquid Gallium. (T) R. P. Yurchak and B. P. Smirnov. 10, 1065 (1968) [10, 1340 (1968)]
SMIRNOV, I. A.
Thermal Conductivity of Plastically Deformed LiF Crystals. (E) I. A. Smirnov and B. I. Smirnov. 10, 244 (1968) [10, 307 (1968)]
Coefficient of Thermo-emf of Lanthanum Antimonide for Temperatures of 80-500°K. (E) E. V. Goncharova and I. A. Smirnov. 10, 266 (1968) [10, 329 (1968)]
Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]
Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]
Effect of the Complex Valence Band of Sb_2Te_3 on Thermal and Electrical Properties. (E) I. A. Smirnov, A. A. Andreev, and V. A. Kutasov. 10, 1403 (1968) [10, 1782 (1968)]
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]
The Lorenz Number in HgSe at High Temperatures. (E) I. A. Smirnov and S. A. Aliev. 10, 2080 (1969) [10, 2643 (1968)]
SMIRNOV, L. S.
The Correlation of the Electrical and Mechanical Properties of Irradiated Germanium Crystals. (E) V. V. Khainovskaya, F. L. Édel'man, and L. S. Smirnov. 10, 211 (1968) [10, 274 (1968)]
Interaction of Dislocations with Radiation Defects in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 10, 1224 (1968) [10, 1549 (1968)]
SMIRNOV, S. A.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]
SMIRNOV, V. N.
Electroluminescence in n-Type GaAs Crystals and the Acoustoelectric Current Instability. (E) V. N. Smirnov and G. N. Talalakin. 10, 2209 (1969) [10, 2806 (1968)]
SMIRNOV, V. P.
Interpretation of X-Ray Spectra. (T) V. G. Aleshin, V. P. Smirnov, and M. S. Nakhmanson. 10, 1260 (1968) [10, 1585 (1968)]
Band Structure of Cubic BN. (T) V. G. Aleshin, V. P. Smirnov, and B. V. Gantsevich. 10, 2282 (1969) [10, 2884 (1968)]
SMOKOTIN, É. M.
The Magnetic Properties of Copper Ferrite Single Crystals. (E) G. A. Petrakovskii, K. A. Sablina, and É. M. Smokotin. 10, 2005 (1969) [10, 2544 (1968)]
SMOLENSKI, G. A.
Impurity Effect in the Theory of Indirect Exchange. (T) F. I. Muftakhova, A. N. Men', and G. A. Smolenskii. 10, 315 (1968) [10, 399 (1968)]
Electrooptical Effect in $PbMg_{1/3}Nb_{2/3}O_3$ Crystals. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 365 (1968) [10, 467 (1968)]
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]
Excitation and Propagation of Longitudinal Elastic Waves with Frequencies from 200 to 2000 MHz in Lithium Niobate Crystals. (E) V. V. Lemanov, A. B. Sherman, G. A. Smolenskii, N. B. Angert, and V. P. Klyuev. 10, 1357 (1968) [10, 1720 (1968)]
Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]
Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{2/3}O_3$, $PbMg_{1/3}Ta_{2/3}O_3$, and $PbNi_{1/3}Nb_{2/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]
Scattering of Light by Spin-Ordering Fluctuations Close to the Néel Point in Antiferromagnetic $KNiF_3$. (E) Z. M. Khashkhozev, R. V. Pisarev, and G. A. Smolenskii. 10, 2772 (1969) [10, 3487 (1968)]
SMOLIN, M. D.
Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]
Degree of Ionization of Iron Atoms. (E/T) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1589 (1969) [10, 2022 (1968)]
Sign and Degree of Ionization of Molybdenum in a Nickel-Molybdenum Alloy. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1946 (1969) [10, 2480 (1968)]
SMOLYAKOV, B. P.
Electic Paramagnetic Resonance of Cr^{3+} Ions in Polydomain $LiNbO_3$. (E) B. P. Smolyakov and U. Kh. Kopvillem. 10, 229 (1968) [10, 292 (1968)]
Excitation of 10^4 MHz Sound Waves in KH_2PO_4 at 4.2°K. (E) I. G. Ganeev, U. Kh. Kopvillem, and B. P. Smolyakov. 10, 2942 (1969) [10, 3701 (1968)]
SMOLYANSKII, P. L.
Longitudinal Optical Vibrations in the Spectrum of NaCl Single Crystals. (E) A. I. Stekhanov, Yu. F. Markov, and P. L. Smolyanskii. 10, 2744 (1969) [10, 3461 (1968)]
SMUSHKOV, I. V.
X-Ray Scattering by Real Alkali-Halide Single Crystals. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 10, 1330 (1968) [10, 1684 (1968)]
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1969) [10, 3060 (1968)]
SOBOLEV, E. V.
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]
SOBOTKOVSKII, B. F.
The Shape and Width of the Nuclear Magnetic Resonance Signal in the Overhauser Effect. (T) B. F. Alekseev and B. E. Sobotkovskii. 10, 178 (1968) [10, 237 (1968)]
SOCHAVA, L. S.
Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]
SOIFER, Ya. M.
Temperature Dependence of Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, Ya. M. Soifer, and M. P. Shaskol'skaya. 10, 1549 (1969) [10, 1968 (1968)]

SOKOLOV, V. A.
Mechanism of Radical Recombination Luminescence of Solids with a Wide Forbidden Band. (E) A. I. Bazhin, V. V. Styrov, and V. A. Sokolov. 10, 712 (1968) [10, 908 (1968)]
Radical-Recombination Luminescence of Boron Nitride. (E) G. A. Lubyanskii, V. V. Styrov, and V. A. Sokolov. 10, 2653 (1969) [10, 3359 (1968)]

SOKOLOV, V. I.
Nature of the Exoelectron Emission from the Surface of Silicon. (E) Yu. I. Kozlov and V. I. Sokolov. 10, 1237 (1968) [10, 1561 (1968)]
Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]
Magnetostriction of Paramagnetic Rare-Earth Gallates and Germanates with a Garnet Structure. (E) K. P. Belov, V. I. Sokolov, and Than Dyk Hien. 10, 2946 (1969) [10, 3706 (1968)]

SOKOLOV, V. M.
Role of Surface Waves in Spin-Wave Resonance in Films. (T) V. M. Sokolov and B. A. Tavger. 10, 1412 (1968) [10, 1793 (1968)]

SOKOLOV, V. N.
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]

SOKOLOVA, A. A.
Photoeffect Due to Generation of Excitons in Semiconductors. (E) I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova. 10, 770 (1968) [10, 974 (1968)]

SOKOL'SKAYA, I. L.
Study of Surface Self-Diffusion of Tantalum by Field-Emission Microscopy. (E) D. M. Pautov and I. L. Sokol'skaya. 10, 1941 (1969) [10, 2473 (1968)]

SOLODUNOV, V. V.
Temperature Broadening, Shifts, and Line Shapes in the Quasi-linear Spectra of Organic Molecules in n-Paraffin Solid Solutions. (E) R. I. Personov and V. V. Solodunov. 10, 1454 (1968) [10, 1848 (1968)]

SOLOGUB, V. V.
Quantum Oscillations of the Kinetic and Photoelectric Coefficients on n-Type Bismuth Telluride (Bi_2Te_3). (E) R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman. 10, 2432 (1969) [10, 3087 (1968)]

SOLOV'EV, L. A.
Preparation and Properties of Cadmium Hafnate. (E) L. N. Aver'yanova, I. N. Belyaev, Yu. I. Gol'tsov, L. A. Solov'ev, R. I. Spinko, and O. I. Prokopalo. 10, 2698 (1969) [10, 3416 (1968)]

SOLUNSKII, V. I.
Vacancy Breakdown in Alkali-Halide Crystals under Self-Diffusion Conditions. (E) Ya. E. Geguzin and V. I. Solunskii. 10, 2910 (1969) [10, 3670 (1968)]

SOLYANIK, Z. V.
Influence of Electron Bombardment on Electrical Properties of Thin Te Films. (E) L. I. Ivankiv and Z. V. Solyanik. 10, 715 (1968) [10, 911 (1968)]
Temperature Dependence of the Electron Bombardment Effects on the Electronic and Physical Properties of Semiconducting Thin Films. (E/T) L. I. Ivankiv, B. M. Palyukh, and Z. V. Solyanik. 10, 2694 (1969) [10, 3412 (1968)]

SOMENKO, V. A.
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]

SONIN, A. S.
Electrooptical Properties of Potassium-Sodium Niobate Single Crystals. (E) A. S. Sonin and P. A. Apkar'yants. 10, 234 (1968) [10, 296 (1968)]
Electrooptic Effect in Strontium Titanate Crystals. (E) A. S. Sonin and V. É. Perfilova. 10, 242 (1968) [10, 305 (1968)]
Nonlinearity of the Polarization of Rochelle Salt in Strong Electric Fields. (E) V. V. Gladkii, E. I. Marchenko, and A. S. Sonin. 10, 375 (1968) [10, 478 (1968)]
Calculation of the Ferroelectric Vibration Mode for Single Crystals of $SrTiO_3$ and $BaTiO_3$. (T/E) L. B. Meisner and A. S. Sonin. 10, 438 (1968) [10, 557 (1968)]
Temperature Dependence of the Fundamental Absorption Edge in Triglycine Sulfate. (E) L. M. Guseva and A. S. Sonin. 10, 730 (1968) [10, 925 (1968)]
A New Crystal with a Large Electrooptical Effect. (E) A. S. Vasilevskaya, L. I. Kuznetsova, I. S. Rez, and A. S. Sonin. 10, 733 (1968) [10, 928 (1968)]
Effect of Domain Structure on Second-Harmonic Generation in Triglycine Sulfate Crystals. (E/T) A. S. Sonin and V. S. Suvorov. 10, 814 (1968) [10, 1031 (1968)]
Quadratic Electrooptical Effect in Strontium Titanate Single Crystals. (T/E) L. B. Meisner and A. S. Sonin. 10, 998 (1968) [10, 1252 (1968)]
Spontaneous Polarization of Antiferroelectric Ammonium Dihydrogen Phosphate. (E) L. G. Lomova and A. S. Sonin. 10, 1241 (1968) [10, 1565 (1968)]
Generation of the Second Harmonic of Ruby Laser Radiation in Some Crystals. (E) A. S. Sonin, A. A. Filimonov, and V. S. Suvorov. 10, 1481 (1968) [10, 1883 (1968)]

SOROKA, V. V.
The Effect of Impurities upon the Temperature Dependences of the Elastic Constants of Quartz. (E) V. V. Soroka. 10, 2241 (1969) [10, 2840 (1968)]

SOROKIN, L. M.
Stacking Faults in Particles of a Precipitated Phase and Elastic Stresses in the Matrix of Decomposed Aluminum-Germanium Solid Solutions. (E) L. M. Sorokin and G. N. Mosina. 10, 127 (1968) [10, 171 (1968)]

SOROKIN, V. K.
Mechanism of Epitaxial Growth of PbTe on KCl. (E) V. M. Kosevich, L. S. Palatnik, and V. K. Sorokin. 10, 1936 (1969) [10, 2465 (1968)]

SOSNINA, É. G.
Interaction of Point Defects Taking Account of Volume Dispersion. (T) V. G. Kosilova, I. A. Kunin, and É. G. Sosnina. 10, 291 (1968) [10, 367 (1968)]

SPALVIN', I. P.
Kinetics of the Electromechanical Effect. (E) S. A. Varchenya, I. P. Spalvin', G. P. Upit, and V. I. Fierov. 10, 1717 (1969) [10, 2194 (1968)]

SPINKO, R. I.
Preparation and Properties of Cadmium Hafnate. (E) L. N. Aver'yanova, I. N. Belyaev, Yu. I. Gol'tsov, L. A. Solov'ev, R. I. Spinko, and O. I. Prokopalo. 10, 2698 (1969) [10, 3416 (1968)]

SPIVAK, G. V.
A Microdiffraction Investigation of the Domain Structure in Barium Titanate Films. (E) V. V. Shakmanov and G. V. Spivak. 10, 802 (1968) [10, 1016 (1968)]

STAFEEV, A. V.
Nature of Nonequivalent Cr^{3+}-Ion Sites in $LaAlO_3$. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 10, 2759 (1969) [10, 3476 (1968)]

STAKHURSKII, L. L.
Temperature Dependence of the Spontaneous Radiation of Gadolinium Ferrite. (E) N. I. Lyashenko and L. L. Stakhurskii. 10, 1498 (1968) [10, 1900 (1968)]

STAMENKOVICH, S. S.
Properties of an Antiferromagnet with Impurities Located Symmetrically with Respect to the Sublattices. (T) S. V. Maleev and S. S. Stamenkovich. 10, 590 (1968) [10, 754 (1968)]

Scattering of Slow Neutrons by the Protons in Hydrogen Bonds Using the Double-Potential-Well Model. (T) S. S. Stamenkovich. 10, 675 (1968) [10, 861 (1968)]

STARIKOV, M. A.

The Influence of Ferromagnetic Impurities on the Susceptibility of Gadolinium near the Curie Point. (E) L. A. Boyarskii and M. A. Starikov. 10, 1143 (1968) [10, 1442 (1968)]

STAROBINETS, S. S.

Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]

STAROSTIN, I. A.

Saturation Mechanism of the Photocurrent and the Occurrence of Relaxation Vibration in CdSe Single Crystals. (E/T) V. V. Serdyuk, G. G. Chemeresyuk, and I. A. Starostin. 10, 2201 (1969) [10, 2797 (1968)]

STAROVOITOV, A. T.

Investigation of the Magnetic Properties of $RbNiF_3$ in Strong Pulsed Magnetic Fields. (E) A. T. Starovoitov, V. I. Ozhogin, and V. A. Bokov. 10, 1228 (1968) [10, 1553 (1968)]

Magnetic Properties of Certain Magnetically-Ordered Fluorides in a Strong Pulsed Magnetic Field. (E) A. T. Starovoitov, V. I. Ozhogin, V. A. Bokov, and P. P. Syrnikov. 10, 2862 (1969) [10, 3608 (1968)]

STARTSEV, V. I.

Mobility and Interaction of Dislocations with Impurities in $KCl:Ba^{2+}$ Crystals. (E) S. V. Lubenets and V. I. Startsev. 10, 15 (1968) [10, 22 (1968)]

Generation of Twinning and Full Dislocations during Expansion of Twin Layers in Calcite. (E) V. Z. Bengus, S. N. Komnik, and V. I. Startsev. 10, 253 (1968) [10, 317 (1968)]

STASENKO, A. G.

Dependence of the Forbidden Energy Gap in Cadmium Sulfide Films on Film Thickness. (E/T) A. G. Stasenko. 10, 186 (1968) [10, 248 (1968)]

STASYUK, Z. V.

Investigation of Structure and Electrical Conductivity of Molybdenum and Titanium Thin Films Deposited on NaCl Single Crystals. (E) R. S. Panchishin, Z. V. Stasyuk, and D. M. Freik. 10, 2149 (1969) [10, 2731 (1968)]

STEFANOVICH, A. E.

Current-Voltage Characteristics of Electron-Hole Plasma under Pinch Effect. (T) A. E. Stefanovich. 10, 1687 (1969) [10, 2153 (1968)]

STEFANOVSKAYA, E. M.

Investigation of the Adsorption of Potassium Ions on the Surface of Molybdenum. (E) N. G. Ban'kovskii, E. M. Stefanovskaya, and V. P. Fedorinov. 10, 113 (1968) [10, 153 (1968)]

STEKHANOV, A. I.

Low-Frequency Vibrations in the Ferroelectric Crystal Potassium Dihydrogen Phosphate (KDP). (E) A. I. Stekhanov and E. A. Popova. 10, 327 (1968) [10, 415 (1968)]

Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

Temperature Dependence of the High-Frequency Band Width of Crystal and Local Vibrations. (E/T) A. A. Klochikhin, T. I. Maksimova, and A. I. Stekhanov. 10, 2617 (1969) [10, 3312 (1968)]

Longitudinal Optical Vibrations in the Spectrum of NaCl Single Crystals. (E) A. I. Stekhanov, Yu. F. Markov, and P. L. Smolyanskii. 10, 2744 (1969) [10, 3461 (1968)]

Details of the Structure of the H_2PO_4 Ion in Ferroelectric KH_2PO_4. (E) E. A. Popova and A. I. Stekhanov. 10, 2948 (1969) [10, 3708 (1968)]

STEPANOV, A. V.

The Effect of Smoothed Surface Defects on the Rupture Stresses of Germanium Single Crystals at Temperatures of 300 and 4.2°K. (E) S. V. Tsivinskii, O. V. Klyavin, and A. V. Stepanov. 10, 1108 (1968) [10, 1397 (1968)]

Dislocation Distribution in Germanium Crystals Grown in the Form of Thin Strips. (E) S. V. Tsivinskii and A. V. Stepanov. 10, 1977 (1969) [10, 2519 (1968)]

Revelation of Dislocation Etch Pits in Sodium Chloride Single Crystals Deformed along the Cube Plane. (E) O. V. Klyavin, S. G. Simashko, and A. V. Stepanov. 10, 2102 (1969) [10, 2671 (1968)]

STEPANOV, G. N.

Determination of the Number of Carriers in Pyrolytic Graphite under Pressure. (E) V. V. Kechin, A. I. Likhter, and G. N. Stepanov. 10, 987 (1968) [10, 1242 (1968)]

STEPANOV, V. A.

Some Properties of Amplitude-Dependent Internal Friction in Aluminum at High Deformation Amplitudes. (E) V. A. Stepanov and V. A. Chelnokov. 10, 173 (1968) [10, 230 (1968)]

STEPANOV, V. G.

Spectrum of Gd^{2+} Impurity Centers in PbF_2 Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]

EPR of Some Iron-Group Ions in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 262 (1968) [10, 325 (1968)]

Experimental Determination of the Valence of Titanium at Cubic Centers in CaF_2. (E) M. M. Zaitov and V. G. Stepanov. 10, 2520 (1969) [10, 3178 (1968)]

EPR Spectrum of Ti^{2+} in SrF_2 and Cu^{2+} in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 2728 (1969) [10, 3438 (1968)]

STEPINA, E. I.

Observation of the Bauschinger Effect during Twinning of Calcite Crystals. (E) R. I. Garber and E. I. Stepina. 10, 337 (1968) [10, 429 (1968)]

STOLOV, A. L.

Optical Spectra of Ni^{2+} Ions in CaF_2 and CdF_2. (E/T) E. I. Zoroatskaya, B. Z. Malkin, A. L. Stolov, and Zh. S. Yakovleva. 10, 255 (1968) [10, 320 (1968)]

Spectrum of Gd^{3+} Impurity Centers in PbF_2 Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]

Influence of Temperature on the Optical Spectra of Centers in Fluorite-Type Single Crystals Activated with Co^{2+} and Ni^{2+} Ions. (E) A. L. Stolov and Zh. S. Yakovleva. 10, 1196 (1968) [10, 1513 (1968)]

Luminescence Spectra of MeF_2 Single Crystals Activated by Erbium. (E) I. B. Aizenberg, L. D. Livanova, I. G. Saitkulov, and A. L. Stolov. 10, 1595 (1969) [10, 2030 (1968)]

Interaction between Er^{3+} Impurity Centers in CaF_2 and CdF_2 Crystals. (E/T) I. G. Saitkulov and A. L. Stolov. 10, 1694 (1969) [10, 2163 (1968)]

STOLYAROV, O. G.

Effect of Doping, As Observed in the Measurement of the Microhardness of GaSb and InSb. (E) V. B. Osvenskii, M. G. Mil'vidskii, O. G. Stolyarov, and V. S. Ivleva. 10, 2212 (1969) [10, 2809 (1968)]

Effect of Charged Additions on the Plasticity of Semiconducting $A^{III}B^{V}$ Compounds. (E) V. B. Osvenskii, O. G. Stolyarov, and M. G. Mil'vidskii. 10, 2540 (1969) [10, 3208 (1968)]

STRAKHOV, L. P.

Magnetic Properties of HgI_2 Single Crystals. (E) L. P. Strakhov, M. P. Shchetinin, and B. A. Kazennov. 10, 1770 (1969) [10, 2248 (1968)]

STRIGUSHCHENKO, I. V.

Emission Parameters of Faces of a Niobium Single Crystals. (E) O. D. Protopopov and I. V. Strigushchenko. 10, 747 (1968) [10, 943 (1968)]

STRUKOV, B. A.

Investigation of the Ferroelectric Properties of Triglycine Selenate at High Hydrostatic Pressures. (E) I. N. Polandov, V. P. Mylov, B. A. Strukov, and V. M. Varikash. 10, 1092 (1968) [10, 1377 (1968)]

Thermal and Electrical Properties of Ferroelectric Triglycine Selenate in the Vicinity of the Curie Point. (E) B. A. Strukov, S. A. Taraskin, and V. M. Varikash. 10, 1445 (1968) [10, 1836 (1968)]

Anisotropy of Sound Absorption in Triglycine Sulfate (TGS) Single Crystals. (T/E) K. A. Minaeva, B. A. Strukov, and K. Varnstorff. 10, 1665 (1969) [10, 2125 (1968)]

The P-T Diagram of the Ferroelectric Crystal NH_4HSO_4. (E) I. N. Polandov, V. P. Mylov, and B. A. Strukov. 10, 1754 (1969) [10, 2232 (1968)]

Anomalous Sound Absorption near the Curie Points of Uniaxial Ferroelectrics. (T) A. P. Levanyuk, K. A. Minaeva, and B. A. Strukov. 10, 1919 (1969) [10, 2443 (1968)]

Specific Heat of Single-Crystal RbH_2PO_4. (E) M. Amin and B. A. Strukov. 10, 2498 (1969) [10, 3158 (1968)]

STUCHEBNIKOV, V. M.

Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide. (E) V. M. Stuchebnikov, V. I. Tikhonov, and V. I. Fistul'. 10, 423 (1968) [10, 539 (1968)]

STUKAN, R. A.

Investigation of the Magnetic Ordering of $CuFe_2S_3$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskii, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]

STYROV, V. V.

Mechanism of Radical Recombination Luminescence of Solids with a Wide Forbidden Band. (E) A. I. Bazhin, V. V. Styrov, and V. A. Sokolov. 10, 712 (1968) [10, 908 (1968)]

Radical-Recombination Luminescence of Boron Nitride. (E) G. A. Lubyanskii, V. V. Styrov, and V. A. Sokolov. 10, 2653 (1969) [10, 3359 (1968)]

SUBASHIEV, A. V.

Anharmonic Interactions in a Lattice with Impurities in the Presence of Localized and Quasilocalized Vibrations. (T) A. A. Klochikhin and A. V. Subashiev. 10, 2316 (1969) [10, 2932 (1968)]

SUBASHIEV, V. K.

Franz-Keldysh Effect in Gallium Phosphide. (E) G. A. Chalikyan, V. K. Subashiev, and P. Kishan. 10, 348 (1968) [10, 442 (1968)]

Exciton Absorption Profile of Gallium Phosphide. (T/E) V. K. Subashiev and G. A. Chalikyan. 10, 1067 (1968) [10, 1343 (1968)]

SUCHKOV, D. D.

The Crystal Field in Rutiles and the EPR Spectrum of Ions with a d^1 Shell. (T) B. P. Berkovskii, M. P. Votinov, B. D. Piterkin, and D. D. Suchkov. 10, 2867 (1969) [10, 3615 (1968)]

SUGAKOV, V. I.

Dispersion and Damping of Electromagnetic Waves in Mixed Molecular Crystals. (T) V. I. Sugakov. 10, 2363 (1969) [10, 2995 (1968)]

SUKHINSKII, A. N.

Photodielectric Effect in SbSI Single Crystals. (E) A. Yu. Kudzin, A. N. Sukhinskii, and R. V. Oginov. 10, 1252 (1968) [10, 1577 (1968)]

SUKHODREVA, I. M.

Formation of Dislocations in Germanium during Diffusion of Arsenide. (E) I. M. Sukhodreva and L. D. Cheryukanova. 10, 737 (1968) [10, 932 (1968)]

SUKHOPAROV, V. A.

Effect of Pressure on the Electron Effective Mass in Indium Antimonide. (E) E. S. Itskevich and V. A. Sukhoparov. 10, 264 (1968) [10, 327 (1968)]

SULEIMANOV, Yu. M.

Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]

Blue Photo- and Electroluminescence of Epitaxial Silicon Carbide Films. (E) V. I. Pavlichenko, I. V. Ryzhikov, Yu. M. Suleimanov, and Yu. M. Shvaidak. 10, 2205 (1969) [10, 2801 (1968)]

SULTANOV, V. M.

Behavior of Cesium on the Faces of a Large Tungsten Single Crystal. (E) N. A. Gorbatyi, L. V. Reshetnikova, and V. M. Sultanov. 10, 940 (1968) [10, 1185 (1968)]

SUMIMOTO, T.

Activator-Free Luminescence of Zn(S:Se) Phosphors. (E) S. Asano, K. Omori, and T. Sumimoto. 10, 891 (1968) [10, 1124 (1968)]

SURIN, V. V.

Anisotropy of the Self-Modulation of Nonlinear Ferromagnetic Resonance. (E) I. E. Dikshtein, Ya. A. Monosov, and V. V. Surin. 10, 1506 (1968) [10, 1907 (1968)]

Instability of Nonlinear Ferromagnetic Resonance. (E) Yu. S. Lifanov, Ya. A. Monosov, and V. V. Surin. 10, 2467 (1969) [10, 3126 (1968)]

SURMAVA, G. G.

The Relationship between Diffusion Parameters in Filamentary Crystals. (T) G. G. Surmava and F. N. Tavadze. 10, 714 (1968) [10, 910 (1968)]

SUSHCHINSKII, M. M.

Cross Sections for the Raman Scattering of Light in GaP and CdS Crystals. (E) V. S. Ryazanov, V. S. Gorelik, G. V. Peregudov, M. M. Sushchinskii, and V. A. Chirkov. 10, 1508 (1968) [10, 1909 (1968)]

SUVOROV, V. S.

Effect of Domain Structure on Second-Harmonic Generation in Triglycine Sulfate Crystals. (E/T) A. S. Sonin and V. S. Suvorov. 10, 814 (1968) [10, 1031 (1968)]

Generation of the Second Harmonic of Ruby Laser Radiation in Some Crystals. (E) A. S. Sonin, A. A. Filimonov, and V. S. Suvorov. 10, 1481 (1968) [10, 1883 (1968)]

SUSLINA, L. G.

Spectrum of Exciton Complexes in Hexagonal ZnS Crystals. (E) E. F. Gross, L. G. Suslina, and E. B. Shadrin. 10, 818 (1968) [10, 1036 (1968)]

SVETLOV, I. L.

Young's Modulus of Sapphire Whiskers. (E) S. Z. Bokshtein, G. N. Zaitsev, M. P. Nazarova, and I. L. Svetlov. 10, 443 (1968) [10, 564 (1968)]

SVETLOV, Yu. G.

Enthalpy and Specific Heat of Amorphous Isomers. (E) B. I. Pirozhkov and Yu. G. Svetlov. 10, 240 (1968) [10, 303 (1968)]

SYCHUGOV, V. A.

Thermal Investigation of Nd^{3+}-Doped Yttrium Aluminum Garnet. (E) V. A. Sychugov and G. P. Shipulo. 10, 2224 (1969) [10, 2821 (1968)]

SYRNIKOV, P. P.

Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]

Magnetic Properties of Certain Magnetically-Ordered Fluorides in a Strong Pulsed Magnetic Field. (E) A. T. Starovoitov, V. I. Ozhogin, V. A. Bokov, and P. P. Syrnikov. 10, 2862 (1969) [10, 3608 (1968)]

SYSOEV, L. A.

Internal Friction in CdS Single Crystals. (E) A. A. Blistanov, V. V. Gerasʹkin, and L. A. Sysoev. 10, 1657 (1969) [10, 2115 (1968)]

SYUTKINA, V. I.

Dislocation Damping Mechanism in an Ordered Alloy of the AuCu Type. (T) B. A. Grinberg, V. I. Syutkina, and É. S. Yakovleva. 10, 1058 (1968) [10, 1330 (1968)]

TAKSAR, I. M.

Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigaĭs, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]

TALALAKIN, G. N.

Electroluminescence in n-Type GaAs Crystals and the Acoustoelectric Current Instability. (E) V. N. Smirnov and G. N. Talalakin. 10, 2209 (1969) [10, 2806 (1968)]

TAMARIN, P. V.

Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashelʹskii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]

TARAKANOV, V. V.

Absorption of Hypersound in CdS at Low Temperatures. (E) E. M. Ganapolʹskii and V. V. Tarakanov. 10, 785 (1968) [10, 993 (1968)]

TARASENKO, L. M.
Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezuglyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2119 (1968)]

TARASENKO, V. V.
Thermal Conductivity of Complex Magnetic Structures Containing Dislocations. (T) V. V. Tarasenko. 10, 1176 (1968) [10, 1486 (1968)]

The Nonlinear Theory of Frequency Conversion in Ferrites. (T/E) B. A. Murmuzhev and V. V. Tarasenko. 10, 2727 (1969) [10, 3443 (1968)]

TARASKIN, S. A.
Thermal and Electrical Properties of Ferroelectric Triglycine Selenate in the Vicinity of the Curie Point. (E) B. A. Strukov, S. A. Taraskin, and V. M. Varikash. 10, 1445 (1968) [10, 1836 (1968)]

TARASOV, B. G.
The Effect of Paramagnetic Centers on the NMR Spectra of Polymers Having Conjugated Bonds and Their Complexes. (E) A. I. Maklakov, K. A. Gol'dgammer, V. I. Shepelev, and B. G. Tarasov. 10, 2704 (1969) [10, 3421 (1968)]

TARATORIN, Yu. A.
Changes in the Spectrum of Magnetoelastic Signals Due to an Adiabatic Application of a Magnetic Field Pulse. (E) V. I. Uchastkin, Yu. A. Taratorin, V. A. Krasil'nikov, and K. V. Goncharov. 10, 2544 (1969) [10, 3213 (1968)]

TATARINOV, V. S.
Photoconductivity Spectrum of Diamond. (E) K. N. Pogodaev and V. S. Tatarinov. 10, 1510 (1968) [10, 1911 (1968)]

TAVADZE, F. N.
The Relationship between Diffusion Parameters in Filamentary Crystals. (T) G. G. Surmava and F. N. Tavadze. 10, 714 (1968) [10, 910 (1968)]

TAVGER, B. A.
Role of Surface Waves in Spin-Wave Resonance in Films. (T) V. M. Sokolov and B. A. Tavger. 10, 1412 (1968) [10, 1793 (1968)]

THAN DYK HIEN'
Magnetostriction of Paramagnetic Rare-Earth Gallates and Germanates with a Garnet Structure. (E) K. P. Belov, V. I. Sokolov, and Than Dyk Hien. 10, 2946 (1969) [10, 3706 (1968)]

TEPLOV, M. A.
Magnetic Resonance of Tm^{169} Nuclei in Single Crystal Thulium Ethylsulfate. (E/T) M. A. Teplov. 10, 2009 (1969) [10, 2548 (1968)]

TERYAEV, T. A.
Nuclear Magnetic Resonance in Thin Cobalt Films. (E) V. B. Ustinov, S. P. Repnikov, É. O. Saakov, and T. A. Teryaev. 10, 1264 (1968) [10, 1589 (1968)]

TETEL'BAUM, D. I.
Distribution and Range of Boron and Phosphorus Ions Used in Bombardment of SiO_2. (E) V. G. Volod'ko, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 10, 828 (1968) [10, 1048 (1968)]

TIKHONOV, V. I.
Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide. (E) V. M. Stuchebnikov, V. I. Tikhonov, and V. I. Fistul'. 10, 423 (1968) [10, 539 (1968)]

TIKHONOV, V. V.
Influence of Strong Doping on Thermal Properties of $PbTe_{0.5}Se_{0.5}$. (E) V. A. Saakyan and V. V. Tikhonov. 10, 724 (1968) [10, 920 (1968)]

Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]

TIMAN, B. L.
Influence of the Motion of Dislocations on the Ultrasonic Saturation of the NMR Line of Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 979 (1968) [10, 1233 (1968)]

Transport of Vacancies and Electrical Processes in Cadmium Sulfide Crystals. (E) A. S. Gershun and B. L. Timan. 10, 1258 (1968) [10, 1583 (1968)]

Quadrupole Displacement of the NMR Line in Imperfect Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 2450 (1969) [10, 3110 (1968)]

TIMAN, V. L.
Magnetic Resonance of I^{127} Nuclei in NaI Crystals. (E) Yu. A. Grinchenko, E. R. Dobrovinskaya, and V. L. Timan. 10, 341 (1968) [10, 434 (1968)]

TIMCHENKO, I. N.
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Oskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]

TIMCHENKO, L. I.
Reflection of Nickel in the Ultraviolet Region at Temperatures below and above the Curie Point. (E) R. G. Yarovaya and L. I. Timchenko. 10, 983 (1968) [10, 1237 (1968)]

TIMOFEEV, A. I.
Coupled Magnetoelastic Waves in Ferromagnetic Substances with Allowance for Hyperfine Interaction. (T) A. I. Timofeev and E. A. Turov. 10, 2625 (1969) [10, 3322 (1968)]

TIMOFEEVA, V. A.
The Influence of Exchange Interaction on the Ordering of Holmium Ions in Orthoferrites of the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]

TIMOSHCHENKO, N. E.
Mechanisms of Unipolar Direct Electrical Conductivity of Ionic Insulators. (E) N. P. Bogoroditskii, N. E. Timoshchenko, and I. D. Fridberg. 10, 1171 (1968) [10, 1480 (1968)]

TISHCHENKO, L. P.
Investigation of the Influence of Proton Bombardment on the Electrical Resistance of Thin Silver Films. (E) V. V. Chechetenko, L. P. Tishchenko, and Ya. M. Fogel'. 10, 502 (1968) [10, 638 (1968)]

TISHIN, E. A.
Contact Potential Difference of Double-Layer Ba and Au Films on Nb. (E) E. A. Tishin and B. M. Tsarev. 10, 1719 (1969) [10, 2196 (1968)]

TITOV, A. I.
Interaction of Electrons with Germanium Single Crystals. (E) A. I. Titov. 10, 1489 (1968) [10, 1891 (1968)]

Effect of Temperature and Ion Bombardment on the Angular Dependences of the Secondary-Electron Emission from a Germanium Single Crystal. (E) I. A. Abroyan and A. I. Titov. 10, 2716 (1969) [10, 3432 (1968)]

TOKAREV, E. F.
Electrical Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 1374 (1968) [10, 1743 (1968)]

TOLKACHEV, A. M.
Thermal Expansion of Crystalline Krypton near the Triple Point. (E) V. G. Gavrilko, V. G. Manzhelii, V. I. Kuchnev, and A. M. Tolkachev. 10, 2524 (1969) [10, 3182 (1968)]

TOLPYGO, K. B.
The Optical Absorption by F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 947 (1968) [10, 1193 (1968)]

Carrier Mobility in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 1325 (1968) [10, 1678 (1968)]

Exciton States in Alkali-Halide Crystals. (T) T. A. Kudykina and K. B. Tolpygo. 10, 1608 (1969) [10, 2049 (1968)]

X-Ray Emission Spectra and the Complex Hole-Band Structure in Crystals Having the Sphalerite and Diamond Structures. (T) V. G. Lyapin and K. B. Tolpygo. 10, 1879 (1969) 10, 2390 (1968)]

TOLSTOI, N. A.
Energy Migration and Quenching in Uranyl Salts at Low Temperatures. (E) I. N. Abramova, A. P. Abramov, and N. A. Tolstoi. 10, 2226 (1969) [10, 2824 (1968)]

TOMASHEVSKII, É. E.
Photodegradation Kinetics of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 866 (1968) [10, 1094 (1968)]

Secondary Free-Radical Processes Occurring during Mechanical Breakdown of Solid Polymers. (E) V. A. Zakrevskii, V. V. Baptizmanskii, and É. E. Tomashevskii. 10, 1341 (1968) [10, 1699 (1968)]

Temperature Dependence of the Photodecomposition of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 1363 (1968) [10, 1729 (1968)]

Photomechanical Destruction and Lifetime of Irradiated Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 2395 (1969) [10, 3039 (1968)]

TOMCHUK, P. M.

The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^{V}$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]

TORBIN, N. M.

Development of a Discharge in a Solid Dielectric with Barrier. (E) D. D. Rumyantsev and N. M. Torbin. 10, 1721 (1969) [10, 2197 (1968)]

TREMBACH, V. M.

X-Ray Scattering by Real Alkali-Halide Single Crystals. (E) E. I. Rashkeev, I. V. Smushkov, and V. M. Trembach. 10, 1330 (1968) [10, 1684 (1968)]

TRET'YAKOV, D. N.

The Energy Spectrum of Gallium Arsenide Doped with Silicon. (E) Zh. I. Alferov, D. Z. Garbuzov, E. P. Morozov, I. I. Protasov, and D. N. Tret'yakov. 10, 2260 (1969) [10, 2861 (1968)]

TRET'YAKOV, Yu. D.

Influence of Chemical Homogeneity upon the Critical Parameters of Certain Nickel/Zinc Ferrites. (E) A. N. Goryaga, N. N. Oleinikov, Yu. D. Tret'yakov, and Shrinivasan Si. 10, 2054 (1969) [10, 2608 (1968)]

TRIFONOV, E. D.

Density-Matrix Methods in the Theory of Luminescence and Raman Scattering. (T) K. Poiker and E. D. Trifonov. 10, 1346 (1968) [10, 1705 (1968)]

TROFIMOV, V. I.

Nucleation Centers of Gold on NaCl Crystals. (E) V. I. Trofimov and V. M. Luk'yanovich. 10, 1487 (1968) [10, 1889 (1968)]

TRUKHTANOV, V. A.

Magnetic Properties and Crystal Structure of the Solid Solution System Mg_2SnO_4–$MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]

TSAL, N. A.

Formation of X-Centers in Alkali Halides. (T) A. E. Glauberman and N. A. Tsal'. 10, 739 (1968) [10, 935 (1968)]

TSARENKO, G. V.

Calculation of the Conditions for the Excitation of Recombination Waves in Germanium Containing Compensating Impurities. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 10, 686 (1968) [10, 876 (1968)]

TSAREV, B. M.

Contact Potential Difference of Double-Layer Ba and Au Films on Nb. (E) E. A. Tishin and B. M. Tsarev. 10, 1719 (1969) [10, 2196 (1968)]

TSAREV, Yu. N.

Vibrational Spectrum of Crystals Having the Rutile Structure, and Nonanalytic Behavior of the Limiting Dipole Frequencies. (T) M. S. Shur and Yu. N. Tsarev. 10, 2293 (1969) [10, 2899 (1968)]

TSIDIL'KOVSKII, I. M.

Oscillations of the Magnetoresistance in HgTe. (E) I. M. Tsidil'kovskii and A. I. Ponomarev. 10, 859 (1968) [10, 1085 (1968)]

Pressure Dependence of the Electron Effective Mass in InSb. (E) M. M. Aksel'rod, K. M. Demchuk, I. M. Tsidil'kovskii, E. L. Broide, and K. P. Rodionov. 10, 1733 (1969) [10, 2211 (1968)]

Magnetophonon Oscillations of Transverse Magnetoresistance in n-Type Germanium. (E/T) N. G. Gluzman and I. M. Tsidil'kovskii. 10, 2469 (1969) [10, 3128 (1968)]

TSIKIN, A. N.

The Effect of Dislocations Upon the Development of Electrolytic Crystal Coloration. (E) V. D. Belyaev, G. B. Semushkin, and A. N. Tsikin. 10, 921 (1968) [10, 1160 (1968)]

Electrical Conductivity of Silicon Monoxide Thin Films. (E/T) V. Ya. Kunin, V. V. Pogulyaev, and A. N. Tsikin. 10, 2023 (1969) [10, 2564 (1968)]

TSINCHIK, D. V.

Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium-Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]

TSIPIVKA, Yu. I.

The Effect of a Small Transverse Magnetic Field on Helical Waves in Solid-State Plasma. (T) Yu. I. Tsipivka and G. F. Karavaev. 10, 2689 (1969) [10, 3406 (1968)]

TSIVINSKII, S. V.

The Effect of Smoothed Surface Defects on the Rupture Stresses of Germanium Single Crystals at Temperatures of 300 and 4.2°K. (E) S. V. Tsivinskii, O. V. Klyavin, and A. V. Stepanov. 10, 1108 (1968) [10, 1397 (1968)]

Dislocation Distribution in Germanium Crystals Grown in the Form of Thin Strips. (E) S. V. Tsivinskii and A. V. Stepanov. 10, 1977 (1969) [10, 2519 (1968)]

TSUKERBLAT, B. S.

Polarization of Luminescence and Its Dependence on the Frequency of Exciting Light in the Case of Jahn-Teller States of Impurity Ions. (T) B. G. Vekhter and B. S. Tsukerblat. 10, 1250 (1968) [10, 1574 (1968)]

TSUKERNIK, V. M.

Quantum Mechanics of a Spin Wave in a Ferromagnet. (T) V. M. Tsukernik. 10, 795 (1968) [10, 1006 (1968)]

TSVIRKO, Yu. A.

Spin-Wave Instability of a Ferrite Plate with Parametric Excitation by Acoustic Waves. (T) S. P. Repetskii and Yu. A. Tsvirko. 10, 1205 (1968) [10, 1524 (1968)]

Properties of Coupled Magnetoelastic Waves in Noncentrosymmetric Magnetic Materials. (T) Yu. A. Tsvirko. 10, 2801 (1969) [10, 3526 (1968)]

TSYKALOV, V. G.

Nature of Phase Transitions in $PbCd_{0.5}W_{0.5}O_3$. (E) Yu. M. Poplavko, V. G. Tsykalov, V. I. Molchanov, and V. A. Isupov. 10, 1217 (1968) [10, 1542 (1968)]

Microwave Dielectric Dispersion of the Ferroelectric and Paraelectric Phases of Barium Titanate. (E) Yu. M. Poplavko, V. G. Tsykalov, and V. I. Molchanov. 10, 2708 (1969) [10, 3425 (1968)]

TSYPKIN, S. I.

Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Bolkova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

TURCHINOVICH, G. E.

Motion of Dislocations in LiF Crystals in an Electric Field. (E) L. B. Zuev and G. E. Turchinovich. 10, 2214 (1969) [10, 2811 (1968)]

TURKEVICH, É. I.

Neutron-Diffraction Investigation of the $BiMnO_3$–$CaMnO_3$ System: $Bi_{0.5}Ca_{0.5}MnO_3$ Composition. (E) É. I. Turkevich and V. P. Plakhtii. 10, 754 (1968) [10, 951 (1968)]

TURKOV, S. K.

Interaction between 90° Domains Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]

Theory of the High-Temperature Background of Internal Friction. (T/E) B. M. Darinskii, S. K. Turkov, and Yu. A. Fedorov. 10, 1469 (1968) [10, 1869 (1968)]

TUROV, E. A.

Theory of Nuclear Magnetic Resonance Susceptibility of Magnetic Substances. (T) E. A. Turov and M. I. Kurkin. 10, 2551 (1969) [10, 3222 (1968)]

Theory of Relaxation Processes in Ferromagnets Containing Impurities. (T) E. A. Turov and Yu. N. Skryabin. 10, 2586 (1969) [10, 3271 (1968)]
Coupled Magnetoelastic Waves in Ferromagnetic Substances with Allowance for Hyperfine Interaction. (T) A. I. Timofeev and E. A. Turov. 10, 2625 (1969) [10, 3322 (1968)]

TUTAKINA, O. P.
Change of the Faraday Effect in Yttrium Iron Garnet in a Strong Magnetic Field. (E) N. F. Kharchenko, L. I. Belyi, and O. P. Tutakina. 10, 2221 (1969) [10, 2819 (1968)]

TUTIKOV, N. M.
Optical Properties Associated with the Conduction Mechanism of Ferrites. (E) A. A. Samokhvalov, N. M. Tutikov, and G. P. Skornyakov. 10, 2172 (1969) [10, 2760 (1968)]

TUTOV, A. I.
Ion-Electron Emission: Formation and Annealing of Radiation Defects during Bombardment of Germanium by Xenon Ions. (E) I. A. Abroyan, V. S. Belyakov, and A. I. Tutov. 10, 2965 (1969) [10, 3726 (1968)]

TYAPUNINA, N. A.
Internal Stress in Crystals of Ultrasonically Strained Lithium Fluoride. (E) É. P. Belozerova, N. A. Tyapunina, and F. A. Kazak. 10, 2812 (1969) [10, 3540 (1968)]

TYUNYAEV, Yu. N.
Role of Dislocations in Impact Polarization of Alkali-Halide Crystals. (E) Yu. N. Tyunyaev, A. A. Urusovskaya, V. N. Mineev, and A. G. Ivanov. 10, 2683 (1969) [10, 3399 (1968)]

TYUTIN, M. S.
Changes in the Volume of the Fluorite Lattice Due to Point Defects. (E) M. S. Tyutin, T. I. Nikitinskaya, B. I. Maksakov, and G. M. Zakharov. 10, 1496 (1968) [10, 1898 (1968)]

UCHASTKIN, V. I.
Changes in the Spectrum of Magnetoelastic Signals Due to an Adiabatic Application of a Magnetic Field Pulse. (E) V. I. Uchastkin, Yu. A. Taratorin, V. A. Krasil'nikov, and K. V. Goncharov. 10, 2544 (1969) [10, 3213 (1968)]
Changes in the Spectrum of the Quasi-Harmonic Signal in Ferrodielectrics. (T/E) V. I. Uchastkin. 10, 2789 (1969) [10, 3504 (1968)]

UDOD, V. V.
Photochemical Reactions in Colored CsBr Crystals. (E) V. V. Udod. 10, 136 (1968) [10, 183 (1968)]
Temperature Dependence of the Hyperfine Interaction Constants of F Centers in LiF. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 996 (1968) [10, 1250 (1968)]
Attenuation of Light by Colloids in Mixed Alkali-Halide Crystals. (E/T) I. S. Radchenko and V. V. Udod. 10, 1827 (1969) [10, 2321 (1968)]
Electron-Nuclear Double Resonance of A Centers in Mixed KCl + LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]
Thermo- and Photochemical Reactions in Colored NaBr Crystals. (E) V. V. Udod. 10, 2741 (1969) [10, 3458 (1968)]
Coagulation of F Centers in Electrolytically Colored KCl Crystals. (E) V. V. Udod. 10, 2777 (1969) [10, 3492 (1968)]

UPIT, G. P.
Kinetics of the Electromechanical Effect. (E) S. A. Varchenya, I. P. Spalvin', G. P. Upit, and V. I. Flerov. 10, 1717 (1969)[10, 2194 (1968)]

URUSOVSKAYA, A. A.
Investigation of Structure Defects in Lithium Fluoride by the Thermally Stimulated Electron Emission Method. (E) G. G. Knab and A. A. Urusovskaya. 10, 505 (1968) [10, 641 (1968)]
Effect of Neutron Radiation on Dislocation Mobility in LiF Crystals. (E) A. A. Urusovskaya and M. Perzhinova. 10, 2487 (1969) [10, 3146 (1968)]
Role of Dislocations in Impact Polarization of Alkali-Halide Crystals. (E) Yu. N. Tyunyaev, A. A. Urusovskaya, V. N. Mineev, and A. G. Ivanov. 10, 2683 (1969) [10, 3399 (1968)]

USKOV, V. A.
Influence of Complex Formation on Impurity Diffusion in Semiconductors. (T) V. V. Vas'kin and V. A. Uskov. 10, 985 (1968) [10, 1239 (1968)]

USTINOV, V. B.
External Field Amplification Factor and Relaxation Time of Fe^{57} Nuclei during the Observation of Nuclear Magnetic Resonance Signals in Nickel Ferrite. (T/E) L. A. Rassvetalov, S. P. Repnikov, and V. B. Ustinov. 10, 453 (1968) [10, 576 (1968)]
Nuclear Magnetic Resonance in Thin Cobalt Films. (E) V. B. Ustinov, S. P. Repnikov, É. O. Saakov, and T. A. Teryaev. 10, 1264 (1968) [10, 1589 (1968)]

VADAKOV, Yu. A.
Diffusion of Beryllium in Silicon Carbide. (E) Yu. P. Maslakovets, E. N. Mokhov, Yu. A. Vodakov, and G. A. Lomakina. 10, 634 (1968) [10, 809 (1968)]

VANYUKOV, A. V.
Emergence of Dislocations in HgTe Crystals during Annealing in Mercury Vapors. (E/T) G. V. Indenbaum, É. É. Polisar, and A. V. Vanyukov. 10, 1982 (1969) [10, 2524 (1968)].

VARCHENYA, S. A.
Kinetics of the Electromechanical Effect. (E) S. A. Varchenya, I. P. Spalvin', G. P. Upit, and V. I. Flerov. 10, 1717 (1969) [10, 2194 (1968)]

VARFOLOMEEV, A. V.
Ionization of Diamagnetic Excitons and Quantum Effects in the Valence Band of Germanium. (E) B. P. Zakharchenya, R. P. Seisyan, and A. V. Varfolomeev. 10, 2493 (1969) [10, 3153 (1968)]

VARIKASH, V. M.
Investigation of the Ferroelectric Properties of Triglycine Selenate at High Hydrostatic Pressures. (E) I. N. Polandov, V. P. Mylov, B. A. Strukov, and V. M. Varikash. 10, 1092 (1968) [10, 1377 (1968)]
Thermal and Electrical Properties of Ferroelectric Triglycine Selenate in the Vicinity of the Curie Point. (E) B. A. Strukov, S. A. Taraskin, and V. M. Varikash. 10, 1445 (1968) [10, 1836 (1968)]

VARNSTORFF, K.
Anisotropy of Sound Absorption in Triglycine Sulfate (TGS) Single Crystals. (T/E) K. A. Minaeva, B. A. Strukov, and K. Varnstorff. 10, 1665 (1969) [10, 2125 (1968)]

VARTANYAN, A. I.
Influence of the Polarization Charges and External Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]

VASIL'EV, B. P.
Influence of Inhomogeneities on the Amplification of Sound in Cadmium Sulfide. (T/E) B. P. Vasil'ev. 10, 2025 (1969) [10, 2566 (1968)]

VARAGIN, V. S.
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]

VASHKOVSKII, A. V.
Parametric Interaction of Ultrasonic and Magnetic Oscillations in a Ferromagnet. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 475 (1968) [10, 605 (1968)]
Peculiarities of Magnetoacoustic Resonance in Ferrites. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 2975 (1969) [10, 3735 (1968)]

VASIL'EV, B. P.
Instability of a Stationary-Wave Amplitude in CdS in Strong Drift Fields. (E) B. P. Vasil'ev and K. N. Vinogradov. 10, 106 (1968) [10, 144 (1968)]
Dependence of the Amplification of Sound in Piezoelectric Semiconductors on the Wave Amplitude. (E/T) B. P. Vasil'ev and K. N. Vinogradov. 10, 1491 (1968) [10, 1893 (1968)]

VASIL'EV, G. Ya.
The Effect of γ Irradiation upon the Density of Alkali-Halide Crystals. (E) G. A. Andreev and G. Ya. Vasil'ev. 10, 1030 (1968) [10, 1292 (1968)]

VASIL'EV, N. N.
The Effect of Impurity Anions on the Electric Conductivity of Alkali-Halide Crystals. (E) Ya. N. Pershits and N. N. Vasil'ev. 10, 1262 (1968) [10, 1587 (1968)]

VASILEVSKAYA, A. S.
A New Crystal with a Large Electrooptical Effect. (E) A. S. Vasilevskaya, L. I. Kuznetsova, I. S. Rez, and A. S. Sonin. 10, 733 (1968) [10, 928 (1968)]

VASIL'KOVSKII, D. N.
Electrical Transport and the Sorent Effect in Molybdenum. (E) D. N. Vasil'kovskii and I. V. Zakurdaev. 10, 2886 (1969) [10, 3640 (1968)]

VAS'KIN, V. V.
Sound Dispersion in Superconducting Semiconductors. (T) V. V. Vas'kin and V. Ya. Demikhovskii. 10, 330 (1968) [10, 419 (1968)]
Influence of Complex Formation on Impurity Diffusion in Semiconductors. (T) V. V. Vas'kin and V. A. Uskov. 10, 985 (1968) [10, 1239 (1968)]

VAVILOV, V. S.
Photoeffect Due to Generation of Excitons in Semiconductors. (E) I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova. 10, 770 (1968) [10, 974 (1968)]
Oscillations in the Photoconductivity and Absorption Spectra of Silicon Due to A Centers. (E) I. P. Akimchenko, V. S. Vavilov, V. A. Vdovenkov, and A. F. Plotnikov. 10, 2917 (1969) [10, 3677 (1968)]

VDOVENKO, V. A.
Oscillations in the Photoconductivity and Absorption Spectra of Silicon Due to A Centers. (E) I. P. Akimchenko, V. S. Vavilov, V. A. Vdovenkov, and A. F. Plotnikov. 10, 2917 (1969) [10, 3677 (1968)]

VDOVIN, V. E.
Dislocation Interactions Taking Spatial Dispersion into Account. (T) V. E. Vdovin and I. A. Kunin. 10, 297 (1968) [10, 375 (1968)]

VEITS, B. N.
Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigalis, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]

VEKHTER, B. G.
Polarization of Luminescence and Its Dependence on the Frequency of Exciting Light in the Case of Jahn-Teller States of Impurity Ions. (T) B. G. Vekhter and B. S. Tsukerblat. 10, 1250 (1968) [10, 1574 (1968)]

VEKILOV, Yu. Kh.
Elastic Moduli of Heavily Doped n-Type Germanium at 300-550°K. (E) V. M. Beilin, Yu. Kh. Vekilov, A. E. Kadyshevich, and O. M. Krasil'nikov. 10, 1226 (1968) [10, 1550 (1968)]
Temperature Dependence of the Elastic Constants of Heavily-Doped Gallium Arsenide. (E) V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov. 10, 2443 (1969) [10, 3101 (1968)]

VEKSHINA, V. S.
The Appearance of a Second Conductivity Zone of GaSb in Shubnikov-De Haas Effect. (E/T) D. V. Mashovets, R. V. Parfen'ev, and V. S. Vekshina. 10, 2700 (1969) [10, 3417 (1968)]

VEKSLER, V. I.
Scattering of Slow Cesium Ions by the Surface of a Tungsten Single Crystal. (E) V. I. Veksler. 10, 2109 (1969) [10, 2680 (1968)]

VERBITSKAYA, T. N.
Microwave Properties of VC-7 Film Varicons. (E/T) Yu. K. Barsukov and T. N. Verbitskaya. 10, 2711 (1969) [10, 3428 (1968)]

VERESHCHAGIN, L. F.
Phase Transitions in Group IV-VI Compounds at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 10, 574 (1968) [10, 733 (1968)]
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]

VERKHOVSKAYA, K. A.
Phase Transitions in Single-Crystal Sb_2S_3. (E/T) K. A. Verkhovskaya, I. P. Grigas, and V. M. Fridkin. 10, 1583 (1969) [10, 2015 (1968)]
Electroluminescence of Single Crystals of Sodium-Zinc Germanate in a Constant Electric Field. (E) K. A. Verkhovskaya, I. P. Kuz'mina, A. N. Lobachev, and V. M. Fridkin. 10, 1504 (1968) [10, 1906 (1968)]

VERKHOZIN, A. N.
Theory of Domain Structure of "Supercritical" Permalloy Films. (T) G. S. Krinchik, E. E. Chepurova, and A. N. Verkhozin. 10, 190 (1968) [10, 253 (1968)]

VERTOPRAKHOV, V. N.
The Dislocation Structure and Mechanical Properties of Aluminum Antimonide Single Crystals. (E) V. I. Nikitenko, V. N. Vertoprakhov, L. M. Dedukh, and V. P. Zinov'eva. 10, 1435 (1968) [10, 1824 (1968)]

VELICHKO, T. P.
Intrinsic Ferromagnetic Resonance in Powder of Magnetoplumbite. (E) T. P. Velichko and M. A. Sigal. 10, 1987 (1969) [10, 2528 (1968)]

VINETSKII, V. L.
Formation Mechanism of Lattice Defects and F-Centers by Electronic Subsystem Excitation. (T) V. L. Vinetskii. 10, 680 (1968) [10, 867 (1968)]

VINNIKOV, A. P.
Dependence of the Isomeric Shift of Sn^{119} Nuclei in SnX_4 Compounds (X = Cl, Br, I, H, Li, Na) on the Atomic Radius of Element X. (E) V. V. Chekin, A. P. Vinnikov, and I. A. Burakhovich. 10, 225 (1968) [10, 288 (1968)]
The Two Charged States of Tin Impurity in Ag, Au, and Cu. (E/T) V. V. Chekin and A. P. Vinnikov. 10, 2770 (1969) [10, 3486 (1968)]

VINOGRADOV, A. S.
Investigation of the Energy Structure of Silicon Carbide and Silicon Nitride by Ultrasoft X-Ray Spectroscopy. (E) I. I. Zhukova, V. A. Fomichev, A. S. Vinogradov, and T. M. Zimkina. 10, 1097 (1968) [10, 1383 (1968)]

VINOGRADOV, K. N.
Instability of a Stationary-Wave Amplitude in CdS in Strong Drift Fields. (E) B. P. Vasil'ev and K. N. Vinogradov. 10, 106 (1968) [10, 144 (1968)]
Dependence of the Amplification of Sound in Piezoelectric Semiconductors on the Wave Amplitude. (E/T) B. P. Vasil'ev and K. N. Vinogradov. 10, 1491 (1968) [10, 1893 (1968)]

VINOGRADOVA, I. S.
Nuclear Magnetic Resonance of Na^{23} in Ferroelectric $NaNO_2$. (E) I. S. Vinogradova and A. G. Lundin. 10, 602 (1968) [10, 769 (1968)]
Magnetic Resonance of Al^{27} Nuclei in the Ferroelectric $CH_3NH_3Al(SO_4)_2 \cdot 12H_2O$. (E) I. S. Vinogradova. 10, 1727 (1969) [10, 2204 (1968)]

VINOGRADOVA, M. N.
Effect of Donor and Acceptor Impurities on Microhardness of PbTe. (E) M. S. Ablova, M. N. Vinogradova, and M. I. Karkina. 10, 1929 (1969) [10, 2467 (1968)]

VISHNEVSKII, V. N.
Reflection Spectra of Rochelle Salt Crystals in the Vacuum Ultraviolet Range. (E) V. N. Vishnevskii, L. N. Kulik, and N. A. Romanyuk. 10, 217 (1968) [10, 280 (1968)]

VITLINA, R. Z.
Theory of a Gradient Instability of a Current in Semiconductors. (T) R. Z. Vitlina and S. K. Savvinykh. 10, 1292 (1968) [10, 1634 (1968)]

VITMAN, F. F.
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Baikova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]

VITOL, I. K.
Exciton Mechanism of Generation of F Centers in Defectless Parts of Ionic Crystals. (E/T) Ch. B. Lushchik, I. K. Vitol, and M. A. Élango. 10, 2166 (1969) [10, 2753 (1968)]

VITRIKHOVSKII, N. I.
EPR Studies of Mn^{2+} in Some II-VI Mixed Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 10, 2754 (1969) [10, 3471 (1968)]

VLADIMIROV, G. G.
Desorption of Titanium from Tungsten in a Strong Electric Field. (E) G. G. Vladimirov. 10, 957 (1968) [10, 1207 (1968)]

VLADIMIROV, V. I.
A Possible Vacancy Mechanism of Melting. (T) V. I. Vladimirov. 10, 2077 (1969) [10, 2639 (1968)]
Interaction between an Edge Dislocation and the Boundary of an Incline. (T) V. I. Vladimirov and Sh. Kh. Khannanov. 10, 2848 (1969) [10, 3589 (1968)]

VLADIMIRSKII, Yu. B.
Density Changes and Optical Absorption of LiF Single Crystals after Irradiation with X Rays. (E) Yu. B. Vladimirskii, G. M. Zakharov, T. I. Nikitinskaya, and V. M. Reiterov. 10, 2250 (1969) [10, 2849 (1968)]

VLADIMIRTSEV, Yu. V.
Acoustic Saturation of Lithium Nuclear Magnetic Resonance in Lithium Niobate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, and N. A. Shamukov. 10, 2239 (1969) [10, 2839 (1968)]
Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]

VLASOV, K. B.
Rotation of Plane of Polarization and Appearance of Ellipticity in Reflection of Ultrasonic Waves from Magnetically Polarized Metals and Ferrodielectrics. (T) K. B. Vlasov and V. G. Kuleev. 10, 1627 (1969) [10, 2076 (1968)]

VLASOVA, R. M.
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2998 (1968)]

VODAKOV, Yu. A.
Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]

VOITKOVSKII, Yu. B.
Mössbauer Study of States of Iron Atoms at Nickel Grain Boundaries. (E) B. S. Bokshtein, Yu. B. Voitkovskii, A. A. Zhukhovitskii, and G. N. Pautkina. 10, 2940 (1969) [10, 3699 (1968)]

VOLKENSHTEIN, N. V.
The Magnetic Properties of $EuLa_2O_4$ at Low Temperatures. (E) A. A. Samokhvalov, Yu. N. Morozov, V. G. Bamburov, N. V. Volkenshtein, and T. D. Zotov. 10, 1729 (1969) [10, 2206 (1968)]

VOLKOV, N. F.
Electron Emission Due to Bombardment of NaCl and KCl Single Crystals with Slow Inert-Gas Ions Incident at Various Angles. (E) N. N. Petrov, N. F. Volkov, and A. I. Kondrashev. 10, 832 (1968) [10, 1053 (1968)]

VOLKOVA, N. V.
Breakdown in Alkali-Halide Crystals Caused by Laser Radiation. (E) N. I. Alekseev, N. V. Volkova, V. A. Likhachev, and L. M. Shestopalov. 10, 1890 (1969) [10, 2403 (1968)]

VOLOD'KO, V. G.
Distribution and Range of Boron and Phosphorus Ions Used in Bombardment of SiO_2. (E) V. G. Volod'ko, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 10, 828 (1968) [10, 1048 (1968)]

VOLOVETS, L. D.
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Balkova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]

VOROB'EV, G. A.
Mechanism of Dielectric Breakdown in Films. (E) G. A. Vorob'ev. 10, 203 (1968) [10, 266 (1968)]
Luminescence of Rock Salt in Very Strong Electric Fields. (E) G. A. Vorob'ev and N. S. Nesmelov. 10, 2932 (1969) [10, 3691 (1968)]

VOROB'EV, Yu. V.
Injection-Chemical Effect and Electroluminescence of Cu_2O. (E) Yu. I. Karkhanin and Yu. V. Vorob'ev. 10, 1479 (1968) [10, 1880 (1968)]

VOROB'EVA, I. V.
Thermal Stability of Uranium Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]

VORONIN, Yu. M.
Electron Diffraction and Electron Microscope Study of the Structure of Films of Condensed Carbon. (E) B. T. Boiko, L. S. Palatnik, A. S. Derevyanchenko, and Yu. M. Voronin. 10, 520 (1968) [10, 656 (1968)]

VOROZHELKIN, K. F.
Effect of a Disperse Nitrogen Impurity on the Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, M. I. Samoilovich, and K. F. Vorozhelkin. 10, 1723 (1969) [10, 2200 (1968)]

VOSILYUS, I. I.
Cutoff of Dissipative Effects in Multivalley Semiconductors. (T) I. I. Vosilyus and I. B. Levinson. 10, 1158 (1968) [10, 1462 (1968)]

VOTINOV, M. P.
Nature of Nonequivalent Cr^{3+}-Ion Sites in $LaAlO_3$. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 10, 2759 (1969) [10, 3476 (1968)]
Electron Paramagnetic Resonance of "Parallel" Chrome Ion Pairs in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 10, 2808 (1969) [10, 3535 (1968)]
The Crystal Field in Rutiles and the EPR Spectrum of Ions with a d^1 Shell. (T) B. P. Berkovskii, M. P. Votinov, B. D. Piterkin, and D. D. Suchkov. 10, 2867 (1969) [10, 3615 (1968)]

YAKOVLEV, Yu. M.
Ferromagnetic Resonance in Hexaferrite Single Crystals with an Easy Anisotropy Plane. (E) Yu. M. Yakovlev, Yu. R. Shil'nikov, and N. N. Agapova. 10, 745 (1968) [10, 942 (1968)]
Spin Wave Instability in an Antiferromagnet with an "Easy Axis" Type of Anisotropy. (T) Yu. M. Yakovlev. 10, 963 (1968) [10, 1214 (1968)]
Magnetostatic Oscillation Spectrum of an Antiferromagnetic Spheroid with an Easy Axis of Anisotropy. (T) Yu. M. Yakovlev and Yu. N. Burdin. 10, 1284 (1968) [10, 1622 (1968)]
Spin Wave Instabilities in Isotropic Ferromagnets for Alternating and Constant Magnetic Fields of Arbitrary Orientation. (T/E) Yu. M. Yakovlev. 10, 1911 (1969) [10, 2431 (1968)]
Instability of Spin Waves in an Antiferromagnet with Anisotropy of the "Easy Axis" Type. (T) Yu. M. Yakovlev. 10, 2203 (1969) [10, 2799 (1968)]
Ferromagnetic Resonance in Lithium Ferrite-Aluminate Crystals. (E) Yu. M. Yakovlev, É. V. Rubal'skaya, and B. L. Lapovok. 10, 2301 (1969) [10, 2909 (1968)]

YAKOVLEVA, É. S.
Dislocation Damping Mechanism in an Ordered Alloy of the AuCu Type. (T) B. A. Grinberg, V. I. Syutkina, and É. S. Yakovleva. 10, 1058 (1968) [10, 1330 (1968)]

YAKOVLEVA, Zh. S.
Optical Spectra of Ni^{2+} Ions in CaF_2 and CdF_2. (E/T) E. I. Zoroatskaya, B. Z. Malkin, A. L. Stolov, and Zh. S. Yakovleva. 10, 255 (1968) [10, 320 (1968)]
Influence of Temperature on the Optical Spectra of Centers in Fluorite-Type Single Crystals Activated with Co^{2+} and Ni^{2+} Ions. (E) A. L. Stolov and Zh. S. Yakovleva. 10, 1196 (1968) [10, 1513 (1968)]

YAMZIN, I. I.
Neutron Diffraction Study of the Hexagonal Ferrite $Ba_2Zn_2Al_{1.4}Fe_{9.4}O_{22}$. (E) N. N. Aganova, V. A. Sizov, and I. I. Yamzin. 10, 2256 (1969) [10, 2859 (1968)]

YANCHEVSKAYA, I. S.
Electron Paramagnetic Resonance and Thermoluminescence of Irradiated Single Crystals of the Aluminosilicates $NaAlSi_2O_6$ and $LiAlSiO_4$. (E) V. A. Ioffe and I. S. Yanchevskaya. 10, 370 (1968) [10, 472 (1968)]

YANKELEVICH, R. P.
Characteristics of the Propagation of Electromagnetic Waves in Gyro-Anisotropic Media. (T) M. I. Kaganov and R. P. Yankelevich. 10, 2181 (1969) [10, 2771 (1968)]

YAROSHETSKII, I. D.
Thermal Radiation from Transparent Dielectrics during Their Fracture under the Action of Laser Light. (E) V. M. Likhachev, V. M. Salmanov, and I. D. Yaroshetskii. 10, 227 (1968) [10, 290 (1968)]
Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]
Effect of Electric Field and Temperature on Exciton Radiation Intensity in GaP. (E) B. M. Ashkinadze, I. P. Kretsu, S. L. Pyshkin, S. M. Ryvkin, and I. D. Yaroshetskii. 10, 2921 (1969) [10, 3681 (1968)]

YAROVAYA, R. G.
Reflection of Nickel in the Ultraviolet Region at Temperatures below and above the Curie Point. (E) R. G. Yarovaya and L. I. Timchenko. 10, 983 (1968) [10, 1237 (1968)]
Structure and Optical Properties of Gallium Layers Precipitated in Vacuum. (E) I. Yu. Rapp, I. N. Shklyarevskii, and R. G. Yarovaya. 10, 1780 (1969) [10, 2257 (1968)]

YAS'KO, A. A.
Investigation by Low-Energy Electron Diffraction of Scandium Films Adsorbed on a (110) Tungsten Surface. (E) D. A. Gorodetskii and A. A. Yas'ko. 10, 1812 (1969) [10, 2302 (1968)]

YAS'KOV, D. A.
Electroluminescence of Gallium Phosphite near the Forbidden Band. (E) A. N. Pikhtin and D. A. Yas'kov. 10, 1311 (1968) [10, 1660 (1968)]

YASHPOL'SKII, N. L.
Investigation of the Field-Dependent Electron Emission from Porous MgO Films. (E) N. L. Yasnopol'skii and A. É. Shabel'nikova. 10, 75 (1968) [10, 103 (1968)]

YASSIEVICH, I. N.
Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]
Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. (T) V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich. 10, 2309 (1969) [10, 2920 (1968)]

YUDIN, Yu. I.
Laser Radiation-Induced Breakdown Processes in Polymers at the Load Limit. (E) N. P. Novikov, S. S. Saluen'ya, F. N. Chernyavskii, and Yu. I. Yudin. 10, 2990 (1969) [10, 3751 (1968)]

YUGOVA, T. G.
Some Peculiarities of the Decomposition of Supersaturated Solid Solutions of Copper in Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Osvenskii, and T. G. Yugova. 10, 2144 (1969) [10, 2724 (1968)]

YURCHAK, R. P.
Thermal Conductivity and Lorenz Number of Solid and Liquid Gallium. (T) R. P. Yurchak and B. P. Smirnov. 10, 1065 (1968) [10, 1340 (1968)]

YURASOVA, V. E.
Directional Crystallization of Cadmium Sulfide by a Long-Range Mechanism Using Cathode Sputtering. (E) Yu. M. Gerasimov, G. I. Distler, V. M. Efremenkova, and V. E. Yurasova. 10, 207 (1968) [10, 270 (1968)]

YURKOV, B. Ya.
Theory of the Penetration of Fast Protons into a Solid. (T/E) B. Ya. Yurkov. 10, 32 (1967) [10, 47 (1968)]

YUSHCHUK, S. I.
Magnetic Properties and Crystal Structure of the Solid Solution System Mg_2SnO_4–$MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]

ZADVERNYUK, V. M.
High-Temperature Asymptotes of the Solution to the Ising Problem with Arbitrary Interaction between Particles. (T) V. M. Zadvernyuk and V. Ya. Krivnov. 10, 140 (1968) [10, 188 (1968)]

ZAGARII, L. B.
Dislocation Density Dependence of the Anomalous Transmission of X Rays in Potassium Chloride Single Crystals. (E) É. F. Chaikovskii and L. B. Zagarii. 10, 2577 (1969) [10, 2577 (1968)]

ZAIKOVSKII, O. I.
Changes in the Curvature of a Ferroelectric Film Due to Polarization. (E) É. V. Bursian and O. I. Zaikovskii. 10, 1121 (1968) [10, 1413 (1968)]

ZAITOV, M. M.
Experimental Determination of the Valence of Titanium at Cubic Centers in CaF_2. (E) M. M. Zaitov and V. G. Stepanov. 10, 2520 (1969) [10, 3178 (1968)]

ZAITSEV, G. N.
Young's Modulus of Sapphire Whiskers. (E) S. Z. Bokshtein, G. N. Zaitsev, M. P. Nazarova, and I. L. Svetlov. 10, 443 (1968) [10, 564 (1968)]

ZAKHARCHENYA, B. P.
Ionization of Diamagnetic Excitons and Quantum Effects in the Valence Band of Germanium. (E) B. P. Zakharchenya, R. P. Seisyan, and A. V. Varfolomeev. 10, 2493 (1969) [10, 3153 (1968)]

ZAKHAROV, G. M.
Changes in the Volume of the Fluorite Lattice Due to Point Defects. (E) M. S. Tyutin, T. I. Nikitinskaya, B. I. Maksakov, and G. M. Zakharov. 10, 1496 (1968) [10, 1898 (1968)]
Density Changes and Optical Absorption of LiF Single Crystals after Irradiation with X Rays. (E) Yu. B. Vladimirskii, G. M. Zakharov, T. I. Nikitinskaya, and V. M. Reiterov. 10, 2250 (1969) [10, 2849 (1968)]

ZAKREVSKII, V. A.
Secondary Free-Radical Processes Occurring during Mechanical Breakdown of Solid Polymers. (E) V. A. Zakrevskii, V. V. Baptizmanskii, and É. E. Tomashevskii. 10, 1341 (1968) [10, 1699 (1968)]

ZAKURDAEV, I. V.
Electrical Transport and the Sorent Effect in Molybdenum. (E) D. N. Vasil'kovskii and I. V. Zakurdaev. 10, 2886 (1969) [10, 3640 (1968)]

ZARIPOV, M. M.
Spectrum of Gd^{3+} Impurity Centers in PbF_2 Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]
EPR of Some Iron-Group Ions in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 262 (1968) [10, 325 (1968)]
EPR Spectrum of Ti^{2+} in SrF_2 and Cu^{2+} in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 2722 (1969) [10, 3438 (1968)]

ZASLAVSKII, A. I.
Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

ZAV'YALOV, A. V.
Current Instability in n-Type Germanium in Crossed Electric and Magnetic Fields. (E) L. L. Lyuze, A. V. Zav'yalov, and G. F. Kariova. 10, 2195 (1969) [10, 2790 (1968)]

ZEMLYANOV, M. G.
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]

ZEVIN, V. Ya.
Dynamics of EPR, Electron Nuclear Double Resonance (ENDOR), and NMR for Centers Having $S = I = 1/2$. (T) V. L. Hochmann, V. Ya. Zevin, and B. D. Shanina. 10, 269 (1968) [10, 337 (1968)]
Equations of Motion of Macroscopic Spin Quantities for Centers with $S = I = 1/2$. (T) V. Ya. Zevin and B. D. Shanina. 10, 930 (1968) [10, 1173 (1968)]

Quadrupole and Second-Order Effects in the Electron-Nuclear Double-Resonance Spectra of F-Centers in KCl Due to Interactions with a K^{41} Isotope. (E/T) N. P. Baran, M. F. Deigen, V. Ya. Zevin, and M. A. Ruban. 10, 2640 (1969) [10, 3342 (1968)]

ZHDANOVA, V. V.
Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]
Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tkhonov. 10, 1360 (1968) [10, 1725 (1968)]

ZHERNOV, A. P.
Spin-Wave Theory of a Ferromagnet with Interstitial Magnetic Impurities. (T) G. R. Augst, A. P. Zhernov, and Kh. M. Pashaev. 10, 2092 (1969) [10, 2658 (1968)]

ZHESTKOVA, L. I.
Decomposition of a Solid Solution of Antimony in Heavily-Doped Silicon. (E) V. M. Al'tshuller, L. I. Zhestkova, A. U. Kruchinin, and S. V. Rychkova. 10, 2017 (1969) [10, 2556 (1968)]

ZHIDKOV, L. G.
Calculation of Line Width for Raman Scattering of Light by a Monomolecular Chain. (T) L. G. Zhidkov. 10, 464 (1968) [10, 590 (1968)]

ZILICH, A. G.
Investigation of the Exciton Quadrupole Transition in Cu_2O in Electric and Magnetic Fields. (E/T) V. T. Agekyan, E. F. Gross, and A. G. Zhilich. 10, 164 (1968) [10, 218 (1968)]
Polarization Effect on Exciton Absorption Lines. (T) A. G. Zhilich. 10, 1375 (1968) [10, 1746 (1968)]

ZHIRNOVA, E. V.
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]

ZHITNIKOV, R. A.
Silver Atoms Stabilized in Inorganic Glasses. (E) R. A. Zhitnikov and N. I. Mel'nikov. 10, 80 (1968) [10, 108 (1968)]
Paramagnetic Resonance Investigation of Manganese Atoms Stabilized in Various Molecular Matrices. (E) R. A. Zhitnikov and N. V. Kolesnikov. 10, 89 (1968) [10, 120 (1968)]
Matrix Displacements of the Hyperfine-Structure Constant of Stabilized Manganese Atoms. (T/E) P. G. Baranov and R. A. Zhitnikov. 10, 2592 (1969) [10, 3279 (1968)]

ZHIZHENKOV, V. V.
Dependence of the Elastic Properties of Oriented Polymers on the Flexibility of Macromolecules (NMR Results). (E) E. A. Egorov and V. V. Zhizhenkov. 10, 665 (1968) [10, 848 (1968)]

ZHUBANOV, M. Zh.
Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]

ZHUKHOVITSKII, A. A.
Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitskii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]
Mössbauer Study of States of Iron Atoms at Nickel Grain Boundaries. (E) B. S. Bokshtein, Yu. B. Voitkovskii, A. A. Zhukhovitskii, and G. N. Pautkina. 10, 2940 (1969) [10, 3699 (1968)]

ZHUKOV, I. I.
Ultrasoft X-Ray Spectra of Mg and MgO. (E) V. A. Fomichev and I. I. Zhukov. 10, 2992 (1969) [10, 3753 (1968)]

ZHUKOVA, I. I.
Investigation of the Energy Structure of Silicon Carbide and Silicon Nitride by Ultrasoft X-Ray Spectroscopy. (E) I. I. Zhukova, V. A. Fomichev, A. S. Vinogradov, and T. M. Zimkina. 10, 1097 (1968) [10, 1383 (1968)]
Investigation of the Energy Structure of MgO by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev, T. M. Zimkina, and I. I. Zhukova. 10, 2421 (1969) [10, 3073 (1968)]

ZHUKOVA, T. B.
Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]

ZHUZE, V. P.
Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]
Optical Absorption in LaSb. (E) E. V. Goncharova, V. P. Zhuze, and D. P. Lukirskii. 10, 1784 (1969) [10, 2262 (1968)]
The Hall Effect in V_2O_3 Single Crystals in the Metallic Conductivity Region. (E) V. P. Zhuze, A. A. Andreev, and A. I. Shelykh. 10, 2914 (1969) [10, 3674 (1968)]

ZHYULPA, A. S.
Nonlinearity of the Acoustoelectric Interaction in CdS. (E) É. P. Garshka, V. I. Samulionis, B.-P. P. Ketis, and A. S. Zhyulpa. 10, 480 (1968) [10, 611 (1968)]

ZIL'BERMAN, P. E.
Theory of Electron Deflection by Ultrasonic Currents in Conductors. (T) P. E. Zil'berman. 10, 1635 (1969) [10, 2088 (1968)]

ZIL'BERBERG, V. V.
Theory of Raman Scattering in Semiconductors with Plasmons Coupled to Longitudinal Optical Phonons. (T) G. M. Genkin and V. V. Zil'berberg. 10, 1578 (1969) [10, 2008 (1968)]

ZILICHIKHIS, A. L.
Small Magnetic Polarons in Ferromagnets at Low Temperatures. (T) A. L. Zilichikhis and Yu. P. Irkhin. 10, 1554 (1969) [10, 1974 (1968)]

ZIMKIN, I. N.
Change in Dislocation Structure in Slip Bands of LiF Crystals upon Annealing. (E) I. N. Zimkin and B. I. Smirnov. 10, 2534 (1969) [10, 3192 (1968)]

ZIMKINA, T. M.
Investigation of the Band Structure of Amorphous As_2Se_3 by an Ultrasoft X-Ray Spectroscopy Method. (E) V. I. Krugiov and T. M. Zimkina. 10, 170 (1968) [10, 226 (1968)]
Investigation of the Energy Structure of Silicon Carbide and Silicon Nitride by Ultrasoft X-Ray Spectroscopy. (E) I. I. Zhukova, V. A. Fomichev, A. S. Vinogradov, and T. M. Zimkina. 10, 1097 (1968) [10, 1383 (1968)]
Ultrasoft X-Ray Spectrum of Iodine in KI. (E) T. M. Zimkina and V. A. Fomichev. 10, 1104 (1968) [10, 1392 (1968)]
Investigation of the Energy Structure of MgO by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev, T. M. Zimkina, and I. I. Zhukova. 10, 2421 (1969) [10, 3073 (1968)]

ZINGERMAN, Ya. P.
Double-Layer Adsorption of Oxygen on the (100) Face of a Tungsten Crystal at Room Temperature. (E) Ya. P. Zingerman and V. A. Ishchuk. 10, 2960 (1969) [10, 3720 (1968)]

ZINOV'EV, V. E.
Thermal Conductivity and Thermal Diffusivity of Platinum at High Temperatures. (E/T) V. E. Zinov'ev, R. P. Krentsis, and P. V. Gel'd. 10, 2228 (1969) [10, 2826 (1968)]

ZINOV'EVA, V. P.
The Dislocation Structure and Mechanical Properties of Aluminum Antimonide Single Crystals. (E) V. I. Nikitenko, V. N. Vertoprakhov, L. M. Dedukh, and V. P. Zinov'eva. 10, 1435 (1968) [10, 1824 (1968)]

ZITTA, N. F.
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

ZLATKIN, L. B.
Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

ZOLOTOV, E. M.
Some Aspects of the Laser Mechanism in $CaF_2:Dy^{2+}$ Crystals. (E) E. M. Zolotov, A. M. Prokhorov, and G. P. Shipulo. 10, 848 (1968) [10, 1071 (1968)]

ZOLOTUKHIN, I. V.
Stresses in Epitaxial Films. (E) V.S. Postnikov, V. M. Ievlev, V. K. Belonogov, and I. V. Zolotukhin. 10, 722 (1968) [10, 917 (1968)]

Activation Energy for Migration of Ag and Au Atoms along Natural Cleavage Surfaces of Mica. (E) V. S. Postnikov, V. M. Ievlev, and I. V. Zolotukhin. 10, 2531 (1969) [10, 3189 (1968)]

ZOMOV, V. V.
Trapping Mechanism of the Isothermal Decay of the Photocurrent of Cadmium Sulphide Single Crystals. (E/T) V. V. Zomov and V. V. Serdyuk. 10, 2936 (1969) [10, 3695 (1968)]

ZONN, Z. N.
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Spin-Lattice Relaxation of Trigonal Dy^{3+} Centers and Cubic Yb^{3+} Centers. (E/T) L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin. 10, 843 (1968) [10, 1065 (1968)]

ZORIN, E. I.
Distribution and Range of Boron and Phosphorus Ions Used in Bombardment of SiO_2. (E) V. G. Volod'ko, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 10, 828 (1968) [10, 1048 (1968)]

ZOROATSKAYA, E. I.
Optical Spectra of Ni^{2+} Ions in CaF_2 and CdF_2. (E/T) E. I. Zoroatskaya, B. Z. Malkin, A. L. Stolov, and Zh. S. Yakovleva. 10, 255 (1968) [10, 320 (1968)]

ZOTOV, M. I.
Amplitude Dependence of Internal Friction in ZnS Single Crystals. (E) L. N. Aleksandrov and M. I. Zotov. 10, 2199 (1969) [10, 2795 (1968)]

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The Magnetic Properties of $EuLu_2O_4$ at Low Temperatures. (E) A. A. Samokhvalov, Yu. N. Morozov, V. G. Bamburov, N. V. Volkenshtein, and T. D. Zotov. 10, 1729 (1969) [10, 2206 (1968)]

ZURAREV, I. G.
Anisotropy of Two-Photon Absorption in Optical Excitation of CdSe Semiconductor Lasers. (E/T) A. Z. Grasyuk, I. G. Zubarev, and A. N. Mentser. 10, 427 (1968) [10, 543 (1968)]

ZUBKOV, V. G.
Features of the Macroconcentration of Plastic Deformation in Zinc Single Crystals during Alternating Torsion. (E) F. P. Rybalko, V. G. Zubkov, and R. I. Shevchenko. 10, 308 (1968) [10, 391 (1968)]

ZUEV, L. B.
Motion of Dislocations in LiF Crystals in an Electric Field. (E) L. B. Zuev and G. E. Turchinovich. 10, 2214 (1969) [10, 2811 (1968)]

ZUEV, V. M.
Generation and Reception of Ultrasonic Vibrations by Alkali-Halide Single Crystals. (E) Kh. M. Khalilov, A. I. Agaev, V. M. Zuev, and Ya. Sh. Palagashvili. 10, 977 (1968) [10, 1231 (1968)]

Conversion of Ultrasonic into Electrical Oscillations by KCl Single Crystals. (E/T) Kh. M. Khalilov, Ya. Sh. Palagashvili, A. I. Agaev, and V. M. Zuev. 10, 2356 (1969) [10, 2987 (1968)]

ZVEREV, G. M.
Two-Photon Laser-Induced Luminescence Excitation in Scheelite-Type Crystals and Destructive Processes in Such Crystals. (E) G. M. Zverev and É. K. Maldutis. 10, 2027 (1969) [10, 2568 (1968)]

ZVIADADZE, M. D.
Quantum-Statistical Theory of Exchange Narrowing. (T) N. S. Bendiashvili, L. L. Buishvili, and M. D. Zviadadze. 10, 971 (1968) [10, 1224 (1968)]

Effect of NMR Saturation on EPR in the Case of Homogeneous Broadening. (T) L. L. Buishvili and M. D. Zviadadze. 10, 1885 (1969) [10, 2397 (1968)]

Influence of the Exchange Interaction between Nuclear Spins on the Dynamical Polarization of Nuclei. (T) L. L. Buishvili and M. D. Zviadadze. 10, 2015 (1969) [10, 2553 (1968)]

ZVYAGIN, A. I.
EPR of Mn^{2+} in the System $ZnWO_4 - MnWO_4$. (E/T) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 10, 2046 (1969) [10, 2597 (1968)]

Anisotropy of Magnetic Properties of Zinc Tungstate with Cobalt Admixture. (E/T) A. I. Zvyagin and E. N. Khats'ko. 10, 2970 (1969) [10, 3730 (1968)]

ZVYAGINA, A. P.
Determination of the Elastic Constants of Gallium by Measurement of X-Ray Diffuse Scattering. (E) V. P. Glagoleva, A. P. Zvyagina, and Fung Van Tkhom. 10, 2764 (1969) [10, 3480 (1968)]

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Anharmonicity of Thermal Vibrations in Metals and Ionic Crystals. (T/E) T. A. Kontorova. 10, 389 (1968) [10, 496 (1968)]

Calculation of the Ferroelectric Vibration Mode for Single Crystals of $SrTiO_3$ and $BaTiO_3$. (T/E) L. B. Meisner and A. S. Sonin. 10, 438 (1968) [10, 557 (1968)]

Parametric Interaction of Ultrasonic and Magnetic Oscillations in a Ferromagnet. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 475 (1968) [10, 605 (1968)]

Nonlinearity of the Acoustoelectric Interaction in CdS. (E) E. P. Garshka, V. I. Samulionis, B.-P. P. Ketis, and A. S. Zhyulpa. 10, 480 (1968) [10, 611 (1968)]

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Generation of Sound in the Forced Phonon Induction Mode. (T) U. Kh. Kopvillem and V. R. Nagibarov. 10, 587 (1968) [10, 750 (1968)]

Transformation of Electromagnetic and Ultrasonic Waves in Piezoelectric Crystals. (T) E. M. Ganapol'skii. 10, 777 (1968) [10, 982 (1968)]

Absorption of Hypersound in CdS at Low Temperatures. (E) E. M. Ganapol'skii and V. V. Tarakanov. 10, 785 (1968) [10, 993 (1968)]

Alternating Component of the Acoustoelectric Current. (E) P. S. Karla and É. P. Garshka. 10, 852 (1968) [10, 1076 (1968)]

Generation and Reception of Ultrasonic Vibrations by Alkali-Halide Single Crystals. (E) Kh. M. Khalilov, A. I. Agaev, V. M. Zuev, and Ya. Sh. Palagashvili. 10, 977 (1968) [10, 1231 (1968)]

The Influence of Small Polarons on Lattice Vibrations. (T) V. V. Bryksin and Yu. A. Firsov. 10, 1083 (1968) [10, 1364 (1968)]

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Excitation and Propagation of Longitudinal Elastic Waves with Frequencies from 200 to 2000 MHz in Lithium Niobate Crystals. (E) V. V. Lemanov, A. B. Sherman, G. A. Smolenskii, N. B. Angert, and V. P. Klyuev. 10, 1357 (1968) [10, 1720 (1968)]

Dependence of the Amplification of Sound in Piezoelectric Semiconductors on the Wave Amplitude. (E/T) B. P. Vasil'ev and K. N. Vinogradov. 10, 1491 (1968) [10, 1893 (1968)]

Acoustic Excitation of $I = 3/2$ Nuclear-Spin Systems. (T/E) A. M. Sazonov and S. B. Grigor'ev. 10, 1521 (1969) [10, 1927 (1968)]

Theory of Raman Scattering in Semiconductors with Plasmons Coupled to Longitudinal Optical Phonons. (T) G. M. Genkin and V. V. Zil'berberg. 10, 1578 (1969) [10, 2008 (1968)]

Acoustoelectric Effect in a Magnetic Field. (T) Yu. M. Gal'perin and V. D. Kagan. 10, 1600 (1969) [10, 2037 (1968)]

Rotation of Plane of Polarization and Appearance of Ellipticity in Reflection of Ultrasonic Waves from Magnetically Polarized Metals and Ferrodielectrics. (T) K. B. Vlasov and V. G. Kulev. 10, 1627 (1969) [10, 2076 (1968)]

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Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezuglyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2119 (1968)]

Anisotropy of Sound Absorption in Triglycine Sulfate (TGS) Single Crystals. (T/E) K. A. Minaeva, B. A. Strukov, and K. Varnstorff. 10, 1665 (1969) [10, 2125 (1968)]
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Peculiarities of Magnetoacoustic Resonance in Ferrites. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 2975 (1969) [10, 3735 (1968)]

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Mass-Spectrometric Investigation of the Interaction of Oxygen with (110) and (100) Faces of a Tungsten Single Crystal. (E) Yu. G. Ptushinskii and B. A. Chuikov. 10, 565 (1968) [10, 722 (1968)]
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Structure of Platinum Films on a (110) Face of a Tungsten Crystal. (E) A. G. Naumovets and A. G. Fedorus. 10, 2029 (1969) [10, 2570 (1968)]
Preparation and Properties of Thin Films of ZnO. (E) N. L. Kenigsberg and A. N. Chernets. 10, 2235 (1969) [10, 2834 (1968)]
Origin of Dislocation Subboundaries in NaCl Single Crystals Grown from the Melt. (E/T) V. V. Antonova and L. G. Éidel'man. 10, 2599 (1969) [10, 3288 (1968)]

CRYSTALLOGRAPHY

Generation of Twinning and Full Dislocations during Expansion of Twin Layers in Calcite. (E) V. Z. Bengus, S. N. Komnik, and V. I. Startsev. 10, 253 (1968) [10, 317 (1968)]
Observation of the Bauschinger Effect during Twinning of Calcite Crystals. (E) R. I. Garber and E. I. Stepina. 10, 337 (1968) [10, 429 (1968)]
Young's Modulus of Sapphire Whiskers. (E) S. Z. Bokshtein, G. N. Zaitsev, M. P. Nazarova, and I. L. Svetlov. 10, 443 (1968) [10, 564 (1968)]
Mass-Spectrometric Investigation of the Interaction of Oxygen with (110) and (100) Faces of a Tungsten Single Crystal. (E) Yu. G. Ptushinskii and B. A. Chuikov. 10, 565 (1968) [10, 722 (1968)]
The Relationship between Diffusion Parameters in Filamentary Crystals. (T) G. G. Surmava and F. N. Tavadze. 10, 714 (1968) [10, 910 (1968)]
Emission Parameters of Faces of a Niobium Single Crystals. (E) O. D. Protopopov and I. V. Strigushchenko. 10, 747 (1968) [10, 943 (1968)]

Potential and Kinetic Electron Emission from the (110) and (111) Faces of a Mo Single Crystal. (E) U. A. Arifov, R. R. Rakhimov, and Kh. Dzhurakulov. 10, 925 (1968) [10, 1166 (1968)]
Antiphase Domain Boundary Equilibrium and Short-Range Order. (E) N. V. Koshemyakin and L. E. Popov. 10, 1619 (1969) [10, 2065 (1968)]
Adsorption of Carbon Monoxide on (110) and (113) Surfaces of Tungsten Single Crystals Partly Covered by Oxygen. (E) V. S. Agaikin and Yu. G. Ptushinskii. 10, 1698 (1969) [10, 2168 (1968)]
Twinning and Brittleness of Silicon Iron. (E) I. A. Gindin and L. A. Chirkina. 10, 1989 (1969) [10, 2529 (1968)]
Mechanical Characteristics and the Dislocation Structure of LiF Crystals Deformed by Slip along One System of Crystallographic Planes. (T/E) B. I. Smirnov. 10, 2117 (1969) [10, 2689 (1968)]
Method of Investigating the Oxidation Kinetics of Metals. (E) I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii. 10, 2439 (1969) [10, 3097 (1968)]
Visualization of Microbreakdowns on Cleaved Surfaces of Quenched NaCl Crystals. (E) Yu. M. Gerasimov, V. G. Govorkov, and G. I. Distler. 10, 2456 (1969) [10, 3115 (1968)]
Origin of Dislocation Subboundaries in NaCl Single Crystals Grown from the Melt. (E/T) V. V. Antonova and L. G. Éidel'man. 10, 2599 (1969) [10, 3288 (1968)]

CRYSTAL STRUCTURE, INORGANIC

Dynamics of Model Alternating Crystals. (T) Ya. A. Iosilevskii 10, 24 (1968) [10, 35 (1968)]
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]
De Haas-van Alphen Effect in Bi–Sb–Pb Alloys. (E) L. G. Lyubutina. 10, 55 (1968) [10, 77 (1968)]
Silver Atoms Stabilized in Inorganic Glasses. (E) R. A. Zhitnikov and N. I. Mel'nikov. 10, 80 (1968) [10, 108 (1968)]
Electric Paramagnetic Resonance of Cr^{3+} Ions in Polydomain $LiNbO_3$. (E) B. P. Smolyakov and U. Kh. Kopvillem. 10, 229 (1968) [10, 292 (1968)]
Characteristic Features of the Structure of Copper Whiskers Deformed by Torsion. (E) V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer, and V. I. Koltunov. 10, 516 (1968) [10, 652 (1968)]
Electron Diffraction and Electron Microscope Study of the Structure of Films of Condensed Carbon. (E) B. T. Boiko, L. S. Palatnik, A. S. Derevyanchenko, and Yu. M. Voronin. 10, 520 (1968) [10, 656 (1968)]
X-Ray Spectroscopic Study of Titanium Monoxide in the Homogeneous Region and of Titanium Nitride. (E) I. A. Brytov, M. A. Rumsh, and A. S. Parobets. 10, 621 (1968) [10, 794 (1968)]
Influence of the Crystal Structure on the Loss of Energy by Fast Protons in Single Crystals of Alkali Halides. (E) É. T. Shipatov and B. A. Kononov. 10, 670 (1968) [10, 854 (1968)]
Internal Friction Due to Stress Relaxation at Twin Boundaries. (E) L. A. Chirkina. 10, 735 (1968) [10, 930 (1968)]
Neutron-Diffraction Investigation of the $BiMnO_3$–$CaMnO_3$ System: $Bi_{0.15}Ca_{0.85}MnO_3$ Composition. (E) É. I. Turkevich and V. P. Plakhtii. 10, 754 (1968) [10, 951 (1968)]
A Microdiffraction Investigation of the Domain Structure in Barium Titanate Films. (E) V. V. Shakmanov and G. V. Spivak. 10, 802 (1968) [10, 1016 (1968)]
Magnetic Properties and Crystal Structure of the Solid Solution System Mg_2SnO_4–$MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]
The Distribution of Structural Defects in Crystals of Synthetic Corundum. (E) L. E. Ageeva, M. I. Absev, and A. I. Kolyadin. 10, 862 (1968) [10, 1089 (1968)]
Formation of Divalent Anion and Cation Impurity Complexes in KCl Crystals. (E) D. N. Mirlin and I. I. Reshina. 10, 895 (1968) [10, 1129 (1968)]
Neutron-Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
X-Ray Scattering by Real Alkali-Halide Single Crystals. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 10, 1330 (1968) [10, 1684 (1968)]
Electrical-Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 1374 (1968) [10, 1743 (1968)]
Structure of Zinc Sulfide Single Crystals Grown from the Melt under Pressure. (E) G. V. Anan'eva, K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1417 (1968) [10, 1800 (1968)]
Changes in the Volume of the Fluorite Lattice Due to Point Defects. (E) M. S. Tyutin, T. I. Nikitinskaya, B. I. Maksakov, and G. M. Zakharov. 10, 1496 (1968) [10, 1898 (1968)]
Investigation of Defects in InSb Single Crystals by X-Ray Topographic Methods. (E) T. I. Ol'khovikova and I. L. Shul'pina. 10, 1678 (1969) [10, 2141 (1968)]
Description of Intercrystallite Thermoelastic Internal Friction Using the Von Karman Correlation Function. (T) T. D. Shermergor and V. G. Baryshnikov. 10, 1709 (1969) [10, 2183 (1968)]
Lattice Distortion and Energies of Bonds between Tl^+ Centers and Other Anions in Alkali-Halide Crystals. (T) N. N. Kristofel' and V. N. Salomatov. 10, 1749 (1969) [10, 2227 (1968)]
Properties of Acicular Single Crystals of Antimony Selenide. (E) N. I. Butsko and A. P. Oksenyuk. 10, 1759 (1969) [10, 2237 (1968)]
Lattice Distortion and Energies of Bonds between Tl^+ Centers and Other Light Anions in NaCl-Type Crystals. (E) N. N. Kristofel' and V. N. Salomatov. 10, 1778 (1969) [10, 2255 (1968)]
Investigation by Low-Energy Electron Diffraction of Scandium Films Adsorbed on a (110) Tungsten Surface. (E) D. A. Gorodetskii and A. A. Yas'ko. 10, 1812 (1969) [10, 2302 (1968)]
Zigzag Domains in Magnetoplumbite Crystals. (E) G. S. Kandaurova. 10, 1818 (1969) [10, 2311 (1968)]
Concentration-Dependent Line-Shift in Optical Spectra of Ruby. (T/E) A. A. Kaplyanskii, A. K. Przhevuskii, and R. B. Rozenbaum. 10, 1864 (1969) [10, 2370 (1968)]
X-Ray Emission Spectra and the Complex Hole-Band Structure in Crystals Having the Sphalerite and Diamond Structures. (T) V. G. Lyapin and K. B. Tolpygo. 10, 1879 (1969) [10, 2390 (1968)]
Effect of Bonding Character on the Spectra of Co^{2+} and Ni^{2+} Ions in ZnS Crystals Containing Stacking Faults. (E) S. A. Kazanskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1899 (1969) [10, 2415 (1968)]
Intrinsic Ferromagnetic Resonance in Powder of Magnetoplumbite. (E) T. P. Velichko and M. A. Sigal. 10, 1987 (1969) [10, 2528 (1968)]
Determination of the Effective Width of the "Spectral Window" of an X-Ray Crystal Spectrometer. (E) G. Brogren, O. Efimov, and E. Persson. 10, 2138 (1969) [10, 2716 (1968)]
Precision Measurements of Lattice Periods of Strongly Doped Germanium and Silicon. (E) V. T. Bublik, S. S. Gorelik, and A. N. Dubrovina. 10, 2247 (1969) [10, 2846 (1968)]
Isomeric Shift of Sn^{119} Nuclei in Cu–Sn Alloys. (E) V. N. Bykov, L. M. Krizhanskii, B. I. Rogozev, I. I. Rudnev, and A. E. Fedorovskii. 10, 2267 (1969) [10, 2869 (1968)]
Correlated Chains of Atomic Collisions in [100] Directions in Cubic Face-Centered Crystals. (T) N. S. Dinyaeva, Yu. V. Martynenko, and Yu. A. Ryzhov. 10, 2271 (1969) [10, 2873 (1968)]
X-Ray Diffraction Study of HgTe. (E) V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova. 10, 2447 (1969) [10, 3106 (1968)]
Magnetic Properties of Mn–Ga Alloy Powders. (E) A. V. Deryagin, G. S. Kandaurova, and Ya. S. Shur. 10, 2454 (1969) [10, 3113 (1968)]

Short-Range Order in Y–Ca–Fe–V Garnets. (E) G. A. Matveev and V. P. Polyakov. 10, 2566 (1969) [10, 3243 (1968)]
Geometry of Exchange Bonds in Bismuth–Calcium–Vanadium–Iron Garnet. (E) E. L. Dukhovskaya and Yu. G. Saksonov. 10, 2613 (1969) [10, 3308 (1968)]
The Fluctuations and Scattering Processes of Slow Neutrons and Electromagnetic Waves in Ferromagnets Having Small Magnetic Anisotropy. (T) I. A. Akhiezer and D. P. Belozorov. 10, 2835 (1969) [10, 3571 (1968)]
The Domain Structure of Crystals Formed in the Solid Phase. (E) A. L. Roitburd. 10, 2870 (1969) [10, 3619 (1968)]
Some Possibilities for Investigating the Structure of Electronic Spectra Using the Quantum Size Effect. (T) V. N. Lutskii and E. P. Fesenko. 10, 2902 (1969) [10, 3661 (1968)]
Symmetry of Impurity Ions of ClO_4^- in Alkali-Halide Crystals at Different Temperatures. (E) E. K. Galanov and V. S. Libov. 10, 2934 (1969) [10, 3693 (1968)]
Details of the Structure of the H_2PO_4 Ion in Ferroelectric KH_2PO_4. (E) E. A. Popova and A. I. Stekhanov. 10, 2948 (1969) [10, 3708 (1968)]

CRYSTAL STRUCTURE, ORGANIC

Orientational Changes of Structure in Polyethylene. (E) S. Nizamidinov and A. I. Slutsker. 10, 382 (1968) [10, 487 (1968)]
Investigation of the Density of Layers Separating Crystallites in Oriented Polymers. (E) V. S. Kuksenko and A. I. Slutsker. 10, 657 (1968) [10, 838 (1968)]
Effect of Domain Structure on Second-Harmonic Generation in Triglycine Sulfate Crystals. (E/T) A. S. Sonin and V. S. Suvorov. 10, 814 (1968) [10, 1031 (1968)]
Temperature Broadening, Shifts, and Line Shapes in the Quasilinear Spectra of Organic Molecules in n-Paraffin Solid Solutions. (E) R. I. Personov and V. V. Solodunov. 10, 1454 (1968) [10, 1848 (1968)]
Investigation by Low-Energy Electron Diffraction of Scandium Films Adsorbed on a (110) Tungsten Surface. (E) D. A. Gorodetskii and A. A. Yas'ko. 10, 1812 (1969) [10, 2302 (1968)]
Molecular Motion in Polyethylene and Polyethyleneterephthalate. (E) G. P. Gordeev and A. I. Sibilev. 10, 2062 (1969) [10, 2618 (1968)]
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]
Molecular Motion in Solid Dioxane and Its Complexes. (E) Yu. I. Rozenberg. 10, 2379 (1969) [10, 3017 (1968)]
Mass-Spectrometer Study of the Kinetics of Cracking in Plastics and the Kinetics of the Growth of Arterial Cracks. (E) O. F. Pozdnyakov and V. R. Regel'. 10, 2905 (1969) [10, 3664 (1968)]

CRYSTAL STRUCTURE, TECHNIQUES AND APPARATUS

Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]
Investigation of the Field-Dependent Electron Emission from Porous MgO Films. (E) N. L. Yasnopol'skii and A. É. Shabel'nikova. 10, 75 (1968) [10, 103 (1968)]
Paramagnetic Resonance Investigation of Manganese Atoms Stabilized in Various Molecular Matrices. (E) R. A. Zhitnikov and N. V. Kolesnikov. 10, 89 (1968) [10, 120 (1968)]
Effect of Disruptions of Periodicity, Which Arise upon Breakup of a Solid Solution of Oxygen in Silicon, on the Integral Characteristics of Anomalous X-Ray Transmission. (E) V. M. Al'tshuller and S. V. Rychkova. 10, 258 (1968) [10, 322 (1968)]
Electron-Microscope Investigation of CdS Single Crystals Subjected to Heat Treatment. (E) V. S. Babinchuk and V. V. Serdyuk. 10, 509 (1968) [10, 645 (1968)]
Scattering of Neutrons by Parametrically Excited Spin Waves. (E) A. G. Gurevich, G. M. Drabkin, I. M. Lazebnik, E. I. Mal'tsev, I. I. Marchik, and S. S. Starobinets. 10, 511 (1968) [10, 647 (1968)]
Influence of the Structure of a Substance on the Coincidence Bremmstrahlung Spectrum. (T) V. V. Batygin. 10, 580 (1968) [10, 740 (1968)]
Scattering of Slow Neutrons by the Protons in Hydrogen Bonds Using the Double-Potential Well Model. (T) S. S. Stamenkovich. 10, 675 (1968) [10, 861 (1968)]
Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]
Phenomenological Theory of Magnetic Resonance in a Magnetoelastic Medium Having Two Sublattices. (T) L. V. Kurbatov and V. K. Guryiev. 10, 1201 (1968) [10, 1519 (1968)]
Singularities in the Energy Distribution of Slow Neutrons Inelastically Scattered in Crystals Having Extended Defects. (T) Yu. A. Iosilevskii. 10, 1243 (1968) [10, 1567 (1968)]
Interpretation of X-Ray Spectra. (T) V. G. Aleshin, V. P. Smirnov, and M. S. Nakhmanson. 10, 1260 (1968) [10, 1585 (1968)]
X-Ray Scattering by Real Alkali-Halide Single Crystals. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 10, 1330 (1968) [10, 1684 (1968)]
Formation Theory for Three-Dimensional Macroperiodic Lattices Created by a Regularly Segregated New Phase during Decomposition. (T) A. G. Khachaturyan. 10, 1613 (1969) [10, 2056 (1968)]
Antiphase Domain Boundary Equilibrium and Short-Range Order. (E) N. V. Kozhemyakin and L. E. Popov. 10, 1619 (1969) [10, 2065 (1968)]
Investigation of Defects in InSb Single Crystals by X-Ray Topographic Methods. (E) T. I. Ol'khovikova and I. L. Shul'pina. 10, 1678 (1969) [10, 2141 (1968)]
Integrated Characteristics of the Anomalous Transmission of X-Rays in Germanium for the Wavelength Range 0.4970–2.2896 Å. (E/T) O. Efimov and E. Persson. 10, 1756 (1969) [10, 2234 (1968)]
Attenuation of Light by Colloids in Mixed Alkali Halide Crystals. (E/T) I. S. Radchenko and V. V. Udod. 10, 1827 (1969) [10, 2321 (1968)]
Electron Microscope Determination of the Mean Free Path of Adsorbed Atoms. (E) V. M. Kosevich and S. N. Grigorov. 10, 1998 (1969) [10, 2538 (1968)]
Dislocation-Density Dependence of the Anomalous Transmission of X-Rays in Potassium Chloride Single Crystals. (E) É. F. Chaikovskii and L. B. Zagarii. 10, 2035 (1969) [10, 2577 (1968)]
Collision of an Atom with a Solid Film. (T) A. S. Dolgov and N. A. Khizhnyak. 10, 2083 (1969) [10, 2647 (1968)]
Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]
Neutron Diffraction Study of the Hexagonal Ferrite $Ba_2Zn_2Al_{2.5}Fe_{8.5}O_{22}$. (E) N. N. Aganova, V. A. Sizov, and I. I. Yamzin. 10, 2258 (1969) [10, 2859 (1968)]
Investigation of the Energy Structure of MgO by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev, T. M. Zimkina, and I. I. Zhukova. 10, 2421 (1969) [10, 3073 (1968)]
X-Ray Diffraction Study of HgTe. (E) V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova. 10, 2447 (1969) [10, 3106 (1968)]
Nature of the Central Spot on H_V Diffraction Patterns of Spherulites. (T) Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'. 10, 2471 (1969) [10, 3130 (1968)]
Theory of Scattering of Slow Neutrons in Paramagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and B. I. Barts. 10, 2483 (1969) [10, 3142 (1968)]
Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressures. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]
Determination of the Elastic Constants of Gallium by Measurement of X-Ray Diffuse Scattering. (E) V. P. Glagoleva, A. P. Zvyagina, and Fung Van Tkhom. 10, 2764 (1969) [10, 3480 (1968)]

DEFECT PROPERTIES

Mobility and Interaction of Dislocations with Impurities in KCl: Ba^{2+} Crystals. (E) S. V. Lubenets and V. I. Startsev. 10, 15 (1968) [10, 22 (1968)]

Nonadiabatic Transitions of Impurities. (T) V. I. Osherov. 10, 21 (1968) [10, 30 (1968)]

Singularities in the Acoustic Vibration Spectrum of a Crystal Containing a Planar Defect. (T) A. M. Kosevich and V. I. Khokhlov. 10, 39 (1968) [10, 56 (1968)]

The Josephson Tunnel Effect in Anisotropic Superconductors Containing Nonmagnetic Impurities. (T) A. A. Golub. 10, 61 (1968) [10, 84 (1968)]

Silver Atoms Stabilized in Inorganic Glasses. (E) R. A. Zhitnikov and N. I. Mel'nikov. 10, 80 (1968) [10, 108 (1968)]

Formation of Dislocation Structure in Alkali-Halide Crystals during Plastic Deformation. (E) S. N. Komnik. 10, 118 (1968) [10, 159 (1968)]

Stacking Faults in Particles of a Precipitated Phase and Elastic Stresses in the Matrix of Decomposed Aluminum-Germanium Solid Solutions. (E) L. M. Sorokin and G. N. Mosina. 10, 127 (1968) [10, 171 (1968)]

Paramagnetic Resonance in Fe-Doped Gallium Arsenide. (E) V. K. Bazhenov, V. A. Presnov, and S. P. Fedotov. 10, 205 (1968) [10, 268 (1968)]

Diffusion of Zinc in Gallium Arsenide Containing a High Donor Concentration. (E) G. K. Malysh. 10, 246 (1968) [10, 310 (1968)]

Generation of Twinning and Full Dislocations during Expansion of Twin Layers in Calcite. (E) V. Z. Bengus, S. N. Komnik, and V. I. Startsev. 10, 253 (1968) [10, 317 (1968)]

Effect of Disruptions of Periodicity, Which Arise upon Breakup of a Solid Solution of Oxygen in Silicon, on the Integral Characteristics of Anomalous X-Ray Transmission. (E) V. M. Al'tshuller and S. V. Rychkova. 10, 258 (1968) [10, 322 (1968)]

Spectrum of Gd^{3+} Impurity Centers in PbF_2 Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]

Interaction of Point Defects Taking Account of Volume Dispersion. (T) V. G. Kosilova, I. A. Kunin, and É. G. Sosnina. 10, 291 (1968) [10, 367 (1968)]

Dislocation Interactions Taking Spatial Dispersion into Account. (T) V. E. Vdovin and I. A. Kunin. 10, 297 (1968) [10, 375 (1968)]

Features of the Macroconcentration of Plastic Deformation in Zinc Single Crystals during Alternating Torsion. (E) F. P. Rybalko, V. G. Zubkov, and R. I. Shevchenko. 10, 308 (1968) [10, 391 (1968)]

Absorption Spectra of Exciton-Impurity Complexes in Silicon Carbide. (E) I. S. Gorban', A. P. Krokhmal', and S. N. Rud'ko. 10, 312 (1968) [10, 396 (1968)]

Impurity Effect in the Theory of Indirect Exchange. (T) F. I. Muftaknova, A. N. Men', and G. A. Smolenskii. 10, 315 (1968) [10, 399 (1968)]

Investigation of Charge Compensation Mechanisms in Scheelite-Type Crystals Activated with Pr^{3+} Ions. (E) A. M. Morozov, E. G. Reut, and A. I. Ryskin. 10, 393 (1968) [10, 502 (1968)]

Effective Magnetic Fields at Fe^{57} and Sn^{119} Nuclei in Ferrite Garnets with High Concentrations of Nonmagnetic Sn^{4+} Ions. (E) I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii. 10, 419 (1968) [10, 534 (1968)]

Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]

Relaxational Polarization in Defect Solid Solutions of Perovskite-Type Ferroelectrics. (E) G. V. Bois and N. A. Mikhailova. 10, 484 (1968) [10, 616 (1968)]

Investigation of Structure Defects in Lithium Fluoride by the Thermally Stimulated Electron Emission Method. (E) G. G. Knab and A. A. Urusovskaya. 10, 505 (1968) [10, 641 (1968)]

Electron-Microscope Observation of Prismatic Dislocation Loops in Ge. (E) Yu. P. Kabanov, L. M. Morgulis, and Yu. A. Osip'yan. 10, 523 (1968) [10, 665 (1968)]

Properties of an Antiferromagnet with Impurities Located Symmetrically with Respect to the Sublattices. (T) S. V. Maleev and S. S. Stamenkovich. 10, 590 (1968) [10, 754 (1968)]

Electron-Spin Correlation Function in a Diamagnet Containing Paramagnetic Impurities. (T) M. G. Melikiya. 10, 673 (1968) [10, 858 (1968)]

Formation Mechanism of Lattice Defects and F Centers by Electronic Subsystem Excitation. (T) V. L. Vinetskii. 10, 680 (1968) [10, 867 (1968)]

Calculation of the Conditions for the Excitation of Recombination Waves in Germanium-Containing Compensating Impurities. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 10, 686 (1968) [10, 876 (1968)]

Relaxation of F^{19} Nuclei through Paramagnetic Impurities from the Iron and Rare-Earth Groups. (E) A. G. Akhmedov and R. A. Dautov. 10, 700 (1968) [10, 894 (1968)]

Displacement of Cation Vacancies during Coloration of Alkali-Halide Crystals in an Electric Field. (E) Ya. N. Pershits and A. N. Il'in. 10, 719 (1968) [10, 915 (1968)]

Influence of Strong Doping on Thermal Properties of $PbTe_{0.7}Se_{0.3}$. (E) V. A. Saakyan and V. V. Tikhonov. 10, 724 (1968) [10, 920 (1968)]

State of Impurity Iron Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 728 (1968) [10, 923 (1968)]

Formation of Dislocations in Germanium during Diffusion of Arsenic. (E) I. M. Sukhodreva and L. D. Cheryukanova. 10, 737 (1968) [10, 932 (1968)]

Dynamics of a Lattice with Two-Dimensional Defects. (T) Ya. A. Iosilevskii. 10, 761 (1968) [10, 961 (1968)]

Stacking Faults in Tungsten. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. 10, 799 (1968) [10, 1012 (1968)]

Influence of Hydrostatic Pressure on the Behavior of Macrodefects in Ionic Crystals (E) L. M. Polyakov. 10, 822 (1968) [10, 1041 (1968)]

The Distribution of Structural Defects in Crystals of Synthetic Corundum. (E) L. E. Ageeva, M. I. Abaev, and A. I. Kolyadin. 10, 862 (1968) [10, 1089 (1968)]

Formation of Divalent Anion and Cation Impurity Complexes in KCl Crystals. (E) D. N. Mirlin and I. I. Reshina. 10, 895 (1968) [10, 1129 (1968)]

The Nature of the Secondary Dislocations Observed in Silicon after Diffusion. (E) V. M. Al'tshuller. 10, 901 (1968) [10, 1136 (1968)]

Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeov, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]

The Effect of Dislocations Upon the Development of Electrolytic Crystal Coloration. (E) V. D. Belyaev, G. B. Semushkin, and A. N. Tsikin. 10, 921 (1968) [10, 1160 (1968)]

Influence of the Motion of Dislocations on the Ultrasonic Saturation of the NMR Line of Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 979 (1968) [10, 1233 (1968)]

Influence of Complex Formation on Impurity Diffusion in Semiconductors. (T) V. V. Vas'kin and V. A. Uskov. 10, 985 (1968) [10, 1239 (1968)]

Dislocation-Damping Mechanism in an Ordered Alloy of the AuCu Type. (T) B. A. Grinberg, V. I. Syutkina, and É. S. Yakovleva, 10, 1058 (1968) [10, 1330 (1968)]

Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

The Effect of Smoothed-Surface Defects on the Rupture Stresses of Germanium Single Crystals at Temperatures of 300 and 4.2°K. (E) S. V. Tsivinskii, O. V. Klyavin, and A. V. Stepanov. 10, 1108 (1968) [10, 1397 (1968)]

Multilayer Vacancy Dislocation Rings in Zinc. (E) V. N. Rozhanskii and I. A. Ragimov. 10, 1117 (1968) [10, 1408 (1968)]

The Influence of Ferromagnetic Impurities on the Susceptibility of Gadolinium near the Curie Point. (E) L. A. Boyarskii and M. A. Starikov. 10, 1143 (1968) [10, 1442 (1968)]

Thermal Conductivity of Complex Magnetic Structures Containing Dislocations. (T) V. V. Tarasenko. 10, 1176 (1968) [10, 1486 (1968)]

Dynamic Damping of Dislocations by Impurities. (T) A. M. Kosevich and V. D. Natsik. 10, 1220 (1968) [10, 1545 (1968)]
Interaction of Dislocations with Radiation Defects in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 10, 1224 (1968) [10, 1549 (1968)]
Distribution of Copper and Silver Impurities in Crystallization of NaCl and KCl from Melts. (E) G. A. Andreev. 10, 1235 (1968) [10, 1559 (1968)]
Singularities in the Energy Distribution of Slow Neutrons Inelastically Scattered in Crystals Having Extended Defects. (T) Ya. A. Iosilevskii. 10, 1243 (1968) [10, 1567 (1968)]
The Effect of Impurity Anions on the Electric Conductivity of Alkali-Halide Crystals. (E) Ya. N. Pershits and N. N. Vasil'ev. 10, 1262 (1968) [10, 1587 (1968)]
Interaction between 90° Domain Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]
Magnetic Properties of Indium-Substituted Cobalt Ferroxplana Ferrite. (E) N. N. Efimova, Yu. A. Mamalui, and A. A. Murakhovskii. 10, 1271 (1968) [10, 1604 (1968)]
Formation of Point Defects by the Plastic Deformation of LiF Crystals. (E) G. A. Andreev and B. I. Smirnov. 10, 1336 (1968) [10, 1693 (1968)]
Magnetooptical Rotation in Cubic Crystals Containing Anisotropic Impurity Centers. (T/E) L. A. Alekseeva and P. P. Feofilov. 10, 1397 (1968) [10, 1773 (1968)]
Thermal Stability of Uranium-Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]
The Dislocation Structure and Mechanical Properties of Aluminum Antimonide Single Crystals. (E) V. I. Nikitenko, V. N. Vertoprakhov, L. M. Dedukh, and V. P. Zinov'eva. 10, 1435 (1968) [10, 1824 (1968)]
Optical Detection and Piezoelectric Effect in Some Electrooptical Crystals. (E) B. N. Morozov and V. M. Nesterenko. 10, 1442 (1968) [10, 1833 (1968)]
Thermal and Electrical Properties of Ferroelectric Triglycine Selenate in the Vicinity of the Curie Point. (E) B. A. Strukov, S. A. Taraskin, and V. M. Varikash. 10, 1445 (1968) [10, 1836 (1968)]
Theory of Second-Order Phase Transitions of the Displacive Type. (T) Yu. I. Sirotin and L. M. Mikhel'son. 10, 1450 (1968) [10, 1843 (1968)]
Temperature Broadening, Shifts, and Line Shapes in the Quasilinear Spectra of Organic Molecules in n-Paraffin Solid Solutions. (E) R. I. Personov and V. V. Solodunov. 10, 1454 (1968) [10, 1848 (1968)]
Bound States of Electrons and Neutral Impurities. (T) B. V. Petukhov and Yu. I. Polyakov. 10, 1485 (1968) [10, 1887 (1968)]
Changes in the Volume of the Fluorite Lattice Due to Point Defects. (E) M. S. Tyutin, T. I. Nikitinskaya, B. I. Maksakov, and G. M. Zakharov. 10, 1496 (1968) [10, 1898 (1968)]
Luminescence Spectra of MeF_2 Single Crystals Activated by Erbium. (E) I. B. Aizenberg, L. D. Livanova, I. G. Saitkulov, and A. L. Stolov. 10, 1595 (1969) [10, 2030 (1968)]
Investigation of Defects in InSb Single Crystals by X-Ray Topographic Methods. (E) T. I. Ol'khovikova and I. L. Shul'pina. 10, 1678 (1969) [10, 2141 (1968)]
Interaction between Er^{3+} Impurity Centers in CaF_2 and CdF_2 Crystals. (E/T) I. G. Saitkulov and A. L. Stolov. 10, 1694 (1969) [10, 2163 (1968)]
Effect of a Disperse Nitrogen Impurity on the Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, M. I. Samoilovich, and K. F. Vorozheikin. 10, 1723 (1969) [10, 2200 (1968)]
Electron-Microscope Investigation of the Effect of the Load-Application Rate on the Structure of Polycrystalline Nickel. (E) I. A. Gindin, V. P. Lebedev, I. M. Neklyudov, and I. I. Bobonets. 10, 1788 (1969) [10, 2216 (1968)]
Lattice Distortion and Energies of Bonds between Tl^+ Centers and Other Anions in Alkali-Halide Crystals. (T) N. N. Kristofel' and V. N. Salomatov. 10, 1749 (1969) [10, 2227 (1968)]
Temperature Dependence of the Secondary Emission of Magnesium Oxide Containing Excess Magnesium. (E) V. L. Borisov and N. M. Gnuchev. 10, 1752 (1969) [10, 2230 (1968)]
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]
Rate of Dislocation Motion in Sodium Chloride Crystals Containing Bivalent Impurities. (E) É. Yu. Gutmanas and É. M. Nadgornyi. 10, 1799 (1969) [10, 2284 (1968)]
Investigation of Dislocation Processes during Creep of Deformed NaCl and KCl Single Crystals during Heating. (E/T) Ya. E. Geguzin and V. P. Matsokin. 10, 1869 (1969) [10, 2376 (1968)]
Effect of Bonding Character on the Spectra of Co^{2+} and Ni^{2+} Ions in ZnS Crystals Containing Stacking Faults. (E) S. A. Kazanskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1899 (1969) [10, 2415 (1968)]
Anomalous Sound Absorption near the Curie Points of Uniaxial Ferroelectrics. (T) A. P. Levanyuk, K. A. Minaeva, and B. A. Strukov. 10, 1919 (1968) [10, 2443 (1968)]
Effect of Donor and Acceptor Impurities on Microhardness of PbTe. (E) M. S. Ablova, M. N. Vinogradova, and M. I. Karklina. 10, 1929 (1969) [10, 2457 (1968)]
Dislocation Distribution in Germanium Crystals Grown in the Form of Thin Strips. (E) S. V. Tsivinskii and A. V. Stepanov. 10, 1977 (1969) [10, 2519 (1968)]
Emergence of Dislocations in HgTe Crystals during Annealing in Mercury Vapors. (E/T) G. V. Indenbaum, É. É. Polisar, and A. V. Vanyukov. 10, 1982 (1969) [10, 2524 (1968)]
Dynamics of Simple Lattices with Linear Defects. (T) Ya. A. Iosilevskii. 10, 1991 (1969) [10, 2531 (1968)]
Influence of Impurities on the Electrical Properties of Lithium Nitrate. (E) E. V. Khamskii and B. M. Freidin. 10, 2011 (1969) [10, 2550 (1968)]
Influence of Impurities on the Electrical Properties of Barium Nitrate. (E) E. V. Khamskii, B. M. Freidin, and N. D. Sedel'nikova. 10, 2013 (1969) [10, 2551 (1968)]
Decomposition of a Solid Solution of Antimony in Heavily-Doped Silicon. (E) V. M. Al'tshuller, L. I. Zhestkova, A. U. Kruchinin, and S. V. Rychkova. 10, 2017 (1969) [10, 2556 (1968)]
Influence of Inhomogeneities on the Amplification of Sound in Cadmium Sulfide. (T/E) B. P. Vasil'ev. 10, 2025 (1969) [10, 2566 (1968)]
Dislocation-Density Dependence of the Anomalous Transmission of X-Rays in Potassium Chloride Single Crystals. (E) É. F. Chaikovskii and L. B. Zagarii. 10, 2035 (1969) [10, 2577 (1968)]
Spin-Wave Theory of a Ferromagnet with Interstitial Magnetic Impurities. (T) G. R. Augst, A. P. Zhernov, and Kh. M. Pashaev. 10, 2092 (1969) [10, 2658 (1968)]
Revelation of Dislocation Etch Pits in Sodium Chloride Single Crystals Deformed along the Cube Plane. (E) O. V. Klyavin, S. G. Simashko, and A. V. Stepanov. 10, 2102 (1969) [10, 2671 (1968)]
Mechanical Characteristics and the Dislocation Structure of LiF Crystals Deformed by Slip along One System of Crystallographic Planes. (T/E) B. I. Smirnov. 10, 2117 (1969) [10, 2689 (1968)]
Optical Homogeneity of Ruby Crystals and Its Relation to the Radiation Divergence of Lasers. (E) Yu. K. Danileiko, A. A. Manenkov, A. M. Prokhorov, and V. Ya. Khaimov-Mal'kov. 10, 2154 (1969) [10, 2738 (1968)]
Radiative Growth of Depleted Zones and Their Transformation into Dislocative Loops or Pores. (T) É. Ya. Mikhlin. 10, 2160 (1969) [10, 2745 (1968)]
Exciton Mechanism of Generation of F Centers in Defectless Parts of Ionic Crystals. (E/T) Ch. B. Lushchik, I. K. Vitol, and M. A. Élango. 10, 2166 (1969) [10, 2753 (1968)]

EPR of Impurity Ions in Single Crystals of Diaspore α-AlOOH. (E/T) I. A. Gavrilov, L. P. Litovkina, and M. L. Meil'man. 10, 2177 (1969) [10, 2765 (1968)]
Diffusion and Solubility of Silver in Indium Phosphide. (E) K. A. Arseni and B. I. Boltaks. 10, 2190 (1969) [10, 2763 (1968)]
Amplitude Dependence of Internal Friction in ZnS Single Crystals. (E) L. N. Aleksandrov and M. I. Zotov. 10, 2199 (1969) [10, 2795 (1968)]
Effect of Doping, As Observed in the Measurement of the Microhardness of GaSb and InSb. (E) V. B. Osvenskii, M. G. Mil'vidskii, O. G. Stolyarov, and V. S. Ivleva. 10, 2212 (1969) [10, 2809 (1968)]
Motion of Dislocations in LiF Crystals in an Electric Field. (E) L. B. Zuev and G. E. Turchinovich. 10, 2214 (1969) [10, 2811 (1968)]
Excitation of Lamb Waves in CdS Single Crystals. (E) I. Ya. Kucherov and I. V. Ostrovskii. 10, 2216 (1969) [10, 2814 (1968)]
Thermal Investigation on Nd^{3+}-Doped Yttrium–Aluminum Garnet. (E) V. A. Sychugov and G. P. Shipulo. 10, 2224 (1969) [10, 2821 (1968)]
Thermal Defects in Germanium. (E) L. F. Konorova. 10, 2233 (1969) [10, 2831 (1968)]
The Effect of Impurities upon the Temperature Dependences of the Elastic Constants of Quartz. (E) V. V. Soroka. 10, 2241 (1969) [10, 2840 (1968)]
Temperature Dependence of Yield Point and Dislocation Mobility in KCl (Ba^{2+}) Crystals. (T) S. V. Lubenets and I. G. Novikova. 10, 2256 (1969) [10, 2857 (1968)]
Determination of the Energy of Formation of Vacancies in Nickel by the Technique of Quenching in Liquid Helium. II. (E) A. A. Mamalui, T. D. Ostitinskaya, V. A. Pervakov, and V. I. Khomkevich. 10, 2290 (1969) [10, 2892 (1968)]
Anharmonic Interactions in a Lattice with Impurities in the Presence of Localized and Quasilocalized Vibrations. (T) A. A. Klochikhin and A. V. Subashiev. 10, 2316 (1969) [10, 2932 (1968)]
Irreversible Losses Arising during Repeated Back-and-Forth Motion of Dislocations. (E) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 10, 2342 (1969) [10, 2968 (1968)]
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]
Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]
Photomechanical Destruction and Lifetime of Irradiated Stressed Polymers. (E) G. G. Samoilov and Ė. E. Tomashevskii. 10, 2395 (1969) [10, 3039 (1968)]
Influence of Dislocations on Electrical Conductivity and Electromagnetic Effects in Metals. (T) Ė. A. Kaner and Ė. P. Fel'dman. 10, 2401 (1969) [10, 3046 (1968)]
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1969) [10, 3060 (1968)]
Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitskii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]
Temperature Dependence of the Elastic Constants of Heavily-Doped Gallium Arsenide. (E) V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov. 10, 2443 (1969) [10, 3101 (1968)]
Quadrupole Displacement of the NMR Line in Imperfect Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 2450 (1969) [10, 3110 (1968)]
Visualization of Microbreakdowns on Cleaved Surfaces of Quenched NaCl Crystals. (E) Yu. M. Gerasimov, V. G. Govorkov, and G. I. Distler. 10, 2456 (1969) [10, 3115 (1968)]
Motion of a Dislocation Loop in an Ionic Crystal in an External Electric Field. (T) I. G. Margvelashvili, R. A. Polyan, and Z. K. Saralidze. 10, 2475 (1969) [10, 3134 (1968)]
Effect of Dislocations on the Decomposition of Solid Solutions of Elements of the Copper Group in Indium Arsenide. (E) B. I. Boltaks and S. I. Rembeza. 10, 2477 (1969) [10, 3136 (1968)]
Thermal Expansion of Substances Having a Defect Structure of the $A^{III}B_{VI}$ Type and the Antifluorite Structure. (E) S. I. Novikova. 10, 2481 (1969) [10, 3141 (1968)]
Effect of Neutron Radiation on Dislocation Mobility in LiF Crystals. (E) A. A. Urusovskaya and M. Perzhinova. 10, 2487 (1969) [10, 3146 (1968)]
The Josephson Effect in a Very Dirty Superconductor. (T) A. A. Golub. 10, 2501 (1969) [10, 3160 (1968)]
Experimental Determination of the Valence of Titanium at Cubic Centers in CaF_2. (E) M. M. Zaitov and V. G. Stepanov. 10, 2520 (1969) [10, 3178 (1968)]
Determining the Vacancy Concentration in an Alkali-Halide Crystal Containing a Divalent Impurity. (E) V. S. Mandel'. 10, 2530 (1969) [10, 3188 (1968)]
Change in Dislocation Structure in Slip Bands of LiF Crystals upon Annealing. (E) I. N. Zimkin and B. I. Smirnov. 10, 2534 (1969) [10, 3192 (1968)]
Theory of Relaxation Processes in Ferromagnets Containing Impurities. (T) E. A. Turov and Yu. N. Skryabin. 10, 2586 (1969) [10, 3271 (1968)]
Origin of Dislocation Subboundaries in NaCl Single Crystals Grown from the Melt. (E/T) V. V. Antonova and L. G. Ėidel'man. 10, 2599 (1969) [10, 3288 (1968)]
Surmounting of the Elastic Field of Point Defects during the Slip of Dislocations. (T) V. M. Chernov and V. L. Indenbom. 10, 2632 (1969) [10, 3331 (1968)]
Effects Associated with a Defect-Enriched Layer near a Boundary or in a Thin Film of a Nonmetallic Crystal. (T) M. A. Krivoglaz. 10, 2645 (1969) [10, 3348 (1968)]
Effect of Charged Defects on the Breakdown of Thin Dielectrics. (E) V. F. Korzo and G. A. Lyashchenko. 10, 2665 (1969) [10, 3374 (1968)]
Role of Dislocations in Impact Polarization of Alkali–Halide Crystals. (E) Yu. N. Tyunyaev, A. A. Urusovskaya, V. N. Mineev, and A. G. Ivanov. 10, 2683 (1969) [10, 3399 (1968)]
Changes in the Dielectric Properties of Copper-Diffused Zinc Sulfide Crystals. (E) V. M. Korsun' and A. M. Nemchenko. 10, 2696 (1969) [10, 3414 (1968)]
The Effect of Paramagnetic Centers on the NMR Spectra of Polymers Having Conjugated Bonds and Their Complexes. (E) A. I. Maklakov, K. A. Gol'dgammer, V. I. Shepelev, and B. G. Tarasov. 10, 2704 (1969) [10, 3421 (1968)]
Amplification of Acoustic Noise in a Piezosemiconductor. (E/T) V. I. Baibakov. 10, 2738 (1969) [10, 3456 (1968)]
Interaction of Holes and Impurity Complexes in Potassium Iodide Crystals. (E) Ya. N. Pershits and M. G. Pinsk. 10, 2746 (1969) [10, 3463 (1968)]
Nature of Nonequivalent Cr^{3+}-Ion Sites in $LaAlO_3$. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 10, 2759 (1969) [10, 3476 (1968)]
Cross-Relaxation in Corundum Crystals Containing Both Iron and Titanium Impurities. (E) Yu. K. Golub', L. S. Kornienko, and B. Yu. Porozov. 10, 2760 (1969) [10, 3477 (1968)]
The Two Charged States of Tin Impurity in Ag, Au, and Cu. (E/T) V. V. Chekin and A. P. Vinnikov. 10, 2770 (1969) [10, 3486 (1968)]
Study of the Deformation of Polycrystalline Beryllium during Compression. (E) V. A. Finkel' and I. I. Papirov. 10, 2782 (1969) [10, 3497 (1968)]
Variation of Polymer Elasticity with Deformation and Stress Relaxation. (E) A. P. Rudakov and M. I. Bessonov. 10, 2796 (1969) [10, 3519 (1968)]
Internal Stress in Crystals of Ultrasonically Strained Lithium Fluoride. (E) Ė. P. Belozerova, N. A. Tyapunina, and F. A. Kazak. 10, 2812 (1969) [10, 3540 (1968)]
Interaction between an Edge Dislocation and the Boundary of an Incline. (T) V. I. Vladimirov and Sh. Kh. Khannanov. 10, 2848 (1969) [10, 3589 (1968)]

Hyperfine Interaction in Impurity Centers and Complexes with Degenerate Electronic Terms. (T) I. B. Bersuker and I. Ya. Ogurtsov. 10, 2894 (1969) [10, 3651 (1968)]

Mass-Spectrometer Study of the Kinetics of Cracking in Plastics and the Kinetics of the Growth of Arterial Cracks. (E) O. F. Pozdnyakov and V. R. Regel'. 10, 2905 (1969) [10, 3664 (1968)]

Symmetry of Impurity Ions of ClO_4^- in Alkali-Halide Crystals at Different Temperatures. (E) E. K. Galanov and V. S. Libov. 10, 2934 (1969) [10, 3693 (1968)]

Trapping Mechanism of the Isothermal Decay of the Photocurrent of Cadmium Sulphide Single Crystals. (E/T) V. V. Zomov and V. V. Serdyuk. 10, 2936 (1969) [10, 3695 (1968)]

The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]

Anisotropy of Magnetic Properties of Zinc Tungstate with Cobalt Admixture. (E/T) A. I. Zvyagin and E. N. Khats'ko. 10, 2970 (1969) [10, 3730 (1968)]

Decomposition of Several Alkali-Halide Crystals by Laser Radiation and Evaluation of Their Optical Stability. (E) L. M. Belyaev, A. N. Golovistikov, and V. V. Nabatov. 10, 2972 (1969) [10, 3733 (1968)]

Laser Radiation-Induced Breakdown Processes in Polymers at the Load Limit. (E) N. P. Novikov, S. S. Saluen'ya, F. N. Chernyavskii, and Yu. I. Yudin. 10, 2990 (1969) [10, 3751 (1968)]

DIELECTRIC PROPERTIES

The Relation between the Anomalous Behavior of the Heat Capacity and the Linear Thermal Expansion Coefficient at the Curie Point and Critical Fluctuations. (T) É. L. Nagaev. 10, 5 (1968) [10, 9 (1968)]

Dielectric Constant of a Conductor with an Anisotropic Conduction Band. (T) N. V. Fomin. 10, 133 (1968) [10, 179 (1968)]

A Dynamic Study of the Quadratic Electrooptical Effect in Barium Titanate. (E) A. A. Arabidze and V. P. Kokoeva. 10, 151 (1968) [10, 202 (1968)]

Electric and Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$. (E) A. A. Berezhnoi, V. N. Bukhman, L. T. Kudinova, and I. E. Myl'nikova. 10, 192 (1968) [10, 255 (1968)]

Dielectric Properties of $PbZn_{1/3}Nb_{2/3}O_3$, a Ferroelectric with an Indistinct Phase Transition. (E) N. P. Khuchua, V. F. Bova, and I. E. Myl'nikova. 10, 194 (1968) [10, 257 (1968)]

Dielectric Properties of $Bi_4Ti_3O_{12}$ Crystals. (E) N. N. Krainik, I. E. Myl'nikova, and S. F. Kolesnichenko. 10, 198 (1968) [10, 260 (1968)]

Mechanism of Dielectric Breakdown in Films. (E) G. A. Vorob'ev. 10, 203 (1968) [10, 266 (1968)]

The Influence of the Cathode Material on the Electrical Strength of Solid Dielectrics (E) I. S. Pikalova. 10, 215 (1968) [10, 278 (1968)]

Reflection Spectra of Rochelle Salt Crystals in the Vacuum Ultraviolet Range. (E) V. N. Vishnevskii, L. N. Kulik, and N. A. Romanyuk. 10, 217 (1968) [10, 280 (1968)]

Partial Polarization Reversal Processes in $BaTiO_3$ Single Crystals Subjected to Square Bipolar Pulses. (E) E. V. Sinyakov and E. F. Dudnik. 10, 219 (1968) [10, 282 (1968)]

Thermal Radiation from Transparent Dielectrics during Their Fracture under the Action of Laser Light. (E) V. M. Likhachev, V. M. Salmanov, and I. D. Yaroshetskii. 10, 227 (1968) [10, 290 (1968)]

Role of Phase Fluctuations in Ferroelectric Phase Transitions in Solid Solutions with Perovskite-Type Structure. (T/E) V. Ya. Fritsberg. 10, 304 (1968) [10, 385 (1968)]

Low-Frequency Vibrations in the Ferroelectric Crystal Potassium Dihydrogen Phosphate (KDP). (E) A. I. Stekhanov and E. A. Popova. 10, 327 (1968) [10, 415 (1968)]

Microwave-Frequency Dielectric Properties of Divalent Europium Oxides. (E) A. A. Samokhvalov, S. A. Ismailov, and A. Ya. Afanas'ev. 10, 334 (1968) [10, 425 (1968)]

Temperature-Induced Changes in the 875 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]

Light Scattering near a Second-Order Phase Transition in a Dielectric Magnet. (T) V. S. L'vov. 10, 354 (1968) [10, 451 (1968)]

Nonlinearity of the Polarization of Rochelle Salt in Strong Electric Fields. (E) V. V. Gladkii, E. I. Marchenko, and A. S. Sonin. 10, 375 (1968) [10, 478 (1968)]

Relaxation Processes in $BaTiO_3$ Single Crystals Subjected to Unidirectional Mechanical Pressure Pulses. (E) E. V. Sinyakov, S. A. Flerova, and G. V. Barinov. 10, 415 (1968) [10, 529 (1968)]

Calculation of the Ferroelectric Vibration Mode for Single Crystals of $SrTiO_3$ and $BaTiO_3$. (T/E) L. B. Meisner and A. S. Sonin. 10, 438 (1968) [10, 557 (1968)]

Interaction of Electric Dipoles through the Phonon Field. (T) R. V. Saburova. 10, 450 (1968) [10, 572 (1968)]

Relaxational Polarization in Defect Solid Solutions of Perovskite-Type Ferroelectrics. (E) G. V. Bois and N. A. Mikhailova. 10, 484 (1968) [10, 616 (1968)]

Relaxational Polarization in Semiconducting Barium Titanate. (E) G. V. Bois and N. A. Mikhailova. 10, 495 (1968) [10, 630 (1968)]

Nuclear Magnetic Resonance of Na^{23} in Ferroelectric $NaNO_2$. (E) I. S. Vinogradova and A. G. Lundin. 10, 602 (1968) [10, 769 (1968)]

Quantum Theory of Free-Electron Dielectric Constant in Semiconductors. (T) A. G. Aronov, G. E. Pikus, and D. Sh. Shekhter. 10, 645 (1968) [10, 822 (1968)]

Successive Phase Transitions in the Ferroelectric Crystal $K_4Fe(CN)_6 \cdot 3H_2O$. (E) A. Ya. Krasnikova and V. A. Koptsik. 10, 709 (1968) [10, 905 (1968)]

Transformation of Electromagnetic and Ultrasonic Waves in Piezoelectric Crystals. (T) E. M. Ganapol'skii. 10, 777 (1968) [10, 982 (1968)]

A Microdiffraction Investigation of the Domain Structure in Barium Titanate Films. (E) V. V. Shakmanov and G. V. Spivak. 10, 802 (1968) [10, 1016 (1968)]

Properties of $Pb(Ti, Zr)O_3$ Piezoelectric Ceramics and Nature of Their Orientational Dielectric Polarization. (E) V. A. Isupov. 10, 989 (1968) [10, 1244 (1968)]

Quadratic Electrooptical Effect in Strontium Titanate Single Crystals. (T/E) L. B. Meisner and A. S. Sonin. 10, 998 (1968) [10, 1252 (1968)]

Low-Frequency Ferromagnetic Resonance Anharmonicity in a Perpendicularly Polarized Film. (E) V. E. Shapiro. 10, 1009 (1968) [10, 1265 (1968)]

Investigation of the Ferroelectric Properties of Triglycine Selenate at High Hydrostatic Pressures. (E) I. N. Polandov, V. P. Mylov, B. A. Strukov, and V. M. Varikash. 10, 1092 (1968) [10, 1377 (1968)]

Changes in the Curvature of a Ferroelectric Film Due to Polarization. (E) É. V. Bursian and O. I. Zaikovskii. 10, 1121 (1968) [10, 1413 (1968)]

Phonon Effects in Dielectrics in an External Electric Field. (T) I. V. Ioffe. 10, 1191 (1968) [10, 1506 (1968)]

Spontaneous Polarization of Antiferroelectric Ammonium Dihydrogen Phosphate. (E) L. G. Lomova and A. S. Sonin. 10, 1241 (1968) [10, 1565 (1968)]

Polarization of Luminescence and Its Dependence on the Frequency of Exciting Light in the Case of Jahn-Teller States of Impurity Ions. (T) B. G. Vekhter and B. S. Tsukerblat. 10, 1250 (1968) [10, 1574 (1968)]

Photodielectric Effect in SbSI Single Crystals. (E) A. Yu. Kudzin, A. N. Sukhinskii, and R. V. Oginov. 10, 1252 (1968) [10, 1577 (1968)]

Interaction between 90° Domain Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]

Thermal Destruction of F Centers and Dielectric Losses in NaCl and KCl Crystals. (E) Sh. I. Ismailov, Yu. N. Evstifeev, and Yu. L. Lukantsevev. 10, 1322 (1968) [10, 1674 (1968)]
Carrier Mobility in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 1325 (1968) [10, 1678 (1968)]
Secondary Free-Radical Processes Occurring during Mechanical Breakdown of Solid Polymers. (E) V. A. Zakrevskii, V. V. Baptizmanskii, and É. E. Tomashevskii. 10, 1341 (1968) [10, 1699 (1968)]
Polarization Effect on Exciton Absorption Lines. (T) A. G. Zhilich. 10, 1375 (1968) [10, 1746 (1968)]
Exciton Annihilation at a Metal–Dielectric Interface. (T) V. M. Agranovich, Yu. V. Konobeev, and M. A. Mekhtiev. 10, 1383 (1968) [10, 1754 (1968)]
Dislocation Bowing and the Frank-Read Source. (T) G. N. Dubnova, V. L. Indenbom, and A. A. Shtol'berg. 10, 1387 (1968) [10, 1760 (1968)]
The Possibility of Superfluidity in Semimetals during the Dielectric Transition. (T) Yu. P. Denisov and T. T. Mnatsakanov. 10, 1465 (1968) [10, 1863 (1968)]
Dependence of the Amplification of Sound in Piezoelectric Semiconductors on the Wave Amplitude. (E/T) B. P. Vasil'ev and K. N. Vinogradov. 10, 1491 (1968) [10, 1893 (1968)]
Connection between the Cross Section of Light Scattering by Light and the Nonlinear Polarizability of Crystals. (T) A. A. Grinberg and N. I. Kramer. 10, 1573 (1969) [10, 2002 (1968)]
Phase Transitions in Single-Crystal Sb_2S_3. (E/T) K. A. Verkhovskaya, I. P. Grigas, and V. M. Fridkin. 10, 1583 (1969) [10, 2015 (1968)]
Rotation of Plane of Polarization and Appearance of Ellipticity in Reflection of Ultrasonic Waves from Magnetically Polarized Metals and Ferrodielectrics. (T) K. B. Vlasov and V. G. Kulev. 10, 1627 (1969) [10, 2076 (1968)]
Emission of Light during Repolarization of Barium Titanate. (E/T) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 1640 (1969) [10, 2094 (1968)]
Moiré Patterns Due to Misfit Dislocations in Double-Layer Films of Gold and a Gold–Copper Alloy. (E/T) V. M. Kosevich, L. S. Palatnik, and L. E. Chernyakova. 10, 1644 (1969) [10, 2099 (1968)]
Development of a Discharge in a Solid Dielectric with Barrier. (E) D. D. Rumyantsev and N. M. Torbin. 10, 1721 (1969) [10, 2197 (1968)]
Magnetic Resonance of Al^{27} Nuclei in the Ferroelectric $CH_3NH_3 \cdot Al(SO_4)_2 \cdot 12H_2O$. (E) I. S. Vinogradova. 10, 1727 (1969) [10, 2204 (1968)]
The P–T Diagram of the Ferroelectric Crystal NH_4HSO_4. (E) I. N. Polandov, V. P. Mylov, and B. A. Strukov. 10, 1754 (1969) [10, 2232 (1968)]
Influence of Nonequilibrium Carrier Screening on Polarization Processes in Ferroelectric SbSI. (E) A. A. Grekov, V. A. Lyakhovitskaya, A. I. Rodin, and V. M. Fridkin. 10, 1762 (1969) [10, 2239 (1968)]
Field-Dependence of Soft Ferroelectric Mode Frequencies. (T) P. I. Konsin and N. N. Kristofel'. 10, 1773 (1969) [10, 2250 (1968)]
The State of Nitrogen Impurities in Synthetic Diamonds. (E) E. V. Sobolev, Yu. A. Litvin, N. D. Samsonenko, V. E. Il'in, S. V. Lenskaya, and V. P. Butuzov. 10, 1789 (1969) [10, 2266 (1968)]
Influence of the Polarization Charges and External-Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]
Breakdown in Alkali-Halide Crystals Caused by Laser Radiation. (E) N. I. Alekseev, N. V. Volkova, V. A. Likhachev, and L. M. Shestopalov. 10, 1890 (1969) [10, 2403 (1968)]
Excess Electric Charges in Alkali-Halide Crystals. (E) M. I. Kornfel'd. 10, 1904 (1969) [10, 2422 (1968)]
Influence of an Electric Field on the Ferroelectric Phase Transition in Triglycine Sulfate at High Pressures. (E) G. G. Leonidova and N. P. Netesova. 10, 1985 (1969) [10, 2526 (1968)]
Influence of Impurities on the Electrical Properties of Lithium Nitrate. (E) E. V. Khamskii and B. M. Freidin. 10, 2011 (1969) [10, 2550 (1968)]
Influence of Impurities on the Electrical Properties of Barium Nitrate. (E) E. V. Khamskii, B. M. Freidin, and N. D. Sedel'nikova. 10, 2013 (1969) [10, 2551 (1968)]
Possibility of Instability in Ferroelectric Crystals Having Semiconducting Properties. (T) M. S. Shur. 10, 2087 (1969) [10, 2652 (1968)]
Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{2/3}O_3$, $PbMg_{1/3}Ta_{2/3}O_3$, and $PbNi_{1/3}Nb_{2/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]
Effect of Nonequilibrium Current Carriers on the Formation of Boundaries between Phases in the Ferroelectric Semiconductor SbSI. (E/T) I. I. Groshik and V. M. Fridkin. 10, 2276 (1969) [10, 2878 (1968)]
Dependence of Dielectric Properties of SbSI on Temperature and on Hydrostatic Pressure. (E) E. I. Gerzanich and V. M. Fridkin. 10, 2452 (1969) [10, 3111 (1968)]
Prebreakdown Processes in Polycrystalline Calcium Titanate. (E) K. I. Pavlushenko. 10, 2465 (1969) [10, 3124 (1968)]
Dielectric and Elastic Properties of Single Crystals of $BaTiO_3$–$PbTiO_3$ Solid Solutions. (E/T) L. K. Bunina and A. Yu. Kudzin. 2496 (1969) [10, 3156 (1968)]
Activation Energy for Migration of Ag and Au Atoms along Natural Cleavage Surfaces of Mica. (E) V. S. Postnikov, V. M. Ievlev, and I. V. Zolotukhin. 10, 2531 (1969) [10, 3189 (1968)]
Electron Paramagnetic Resonance Spectrum of Mn^{2+} Ions in Ferroelectric $LiNbO_3$. (E/T) M. P. Petrov. 10, 2574 (1969) [10, 3254 (1968)]
Behavior of Ferrodielectrics and Antiferromagnets in a Rapidly Oscillating Magnetic Field. (T) A. I. Akhiezer and S. V. Peletminskii. 10, 2609 (1969) [10, 3301 (1968)]
Effect of Charged Defects on the Breakdown of Thin Dielectrics. (E) V. F. Korzo and G. A. Lyashchenko. 10, 2665 (1969) [10, 3374 (1968)]
Phased Transitions in $A_{V}B_{VI}C_{VII}$ Ferroelectric Semiconductors. (E) T. A. Pikka and V. M. Fridkin. 10, 2668 (1969) [10, 3378 (1968)]
Role of Dislocations in Impact Polarization of Alkali-Halide Crystals. (E) Yu. N. Tyunyaev, A. A. Urusovskaya, V. N. Minaev, and A. G. Ivanov. 10, 2683 (1969) [10, 3399 (1968)]
Changes in the Dielectric Properties of Copper-Diffused Zinc Sulfide Crystals. (E) V. M. Korsun' and A. M. Nemchenko. 10, 2696 (1969) [10, 3414 (1968)]
Preparation and Properties of Cadmium Hafnate. (E) L. N. Aver'yanova, I. N. Belyaev, Yu. I. Gol'tsov, L. A. Solov'ev, R. I. Spinko, and O. I. Prokopalo. 10, 2698 (1969) [10, 3416 (1968)]
Microwave Dielectric Dispersion of the Ferroelectric and Paraelectric Phases of Barium Titanate. (E) Yu. M. Poplavko, V. G. Tsykalov, and V. I. Molchanov. 10, 2708 (1969) [10, 3425 (1968)]
Lattice-Model Estimates of the Conditions of Ferroelectric Transition in Perovskite-Type Crystals. (T) G. A. Efremov and S. N. Koikov. 10, 2732 (1969) [10, 3449 (1968)]
Interaction of Holes and Impurity Complexes in Potassium Iodide Crystals. (E) Ya. N. Pershits and M. G. Pinsk. 10, 2746 (1969) [10, 3463 (1968)]
Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]
Changes in the Spectrum of the Quasi-Harmonic Signal in Ferrodielectrics. (T/E) V. I. Uchastkin. 10, 2789 (1969) [10, 3504 (1968)]
Phenomenological Theory of a Ferroelectric Magnet. (T) V. G. Bar'yakhtar and I. E. Chupis. 10, 2818 (1969) [10, 3547 (1968)]
Theory of Electric Induction Waves in Ferroelectric Semiconductor Crystals. (T) M. S. Shur. 10, 2827 (1969) [10, 3560 (1968)]

Nonlinear Thermal Conductivity of Dielectrics in the Region of Viscous Flow of a Phonon Gas. (T) Kh. Nil'sen and B. I. Shklovskii. 10, 2857 (1969) [10, 3602 (1968)]
Vacancy Breakdown in Alkali-Halide Crystals under Self-Diffusion Conditions. (E) Ya. É. Geguzin and V. I. Solunskii. 10, 2910 (1969) [10, 3670 (1968)]
Estimate of Conditions of Ferroelectric Transition in Crystals Having the SbSI Structure. (T/E) S. N. Kolkov and M. N. Rozov. 10, 2912 (1969) [10, 3672 (1968)]
Types of Electric Induction Waves in Ferroelectric Semiconductors with a First-Order Phase Transition at Temperatures above the Transition Temperature. (T) M. S. Shur. 10, 2925 (1969) [10, 3684 (1968)]
The Para-process near the Curie Point in Polycrystalline Cobalt-Zinc Ferrite. (E/T) S. A. Poltinnikov. 10, 2928 (1969) [10, 3687 (1968)]
Details of the Structure of the H_2PO_4 Ion in Ferroelectric KH_2PO_4. (E) E. A. Popova and A. I. Stekhanov. 10, 2948 (1969) [10, 3708 (1968)]
Microwave Absorption by Free Carriers in Barium Titanate. (E) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 2956 (1969) [10, 3746 (1968)]

DIFFUSION

Diffusion in Silicon Nitride–Aluminum Films. (E) V. Ya. Kovarskii, I. T. Aleksanyan, O. E. Bondarenko, and B. M. Orlov. 10, 209 (1968) [10, 272 (1968)]
Effect of Diffusion on Amplification of Electromagnetic Waves in a Semiconductor Plasma in the Presence of a Negative Volt-Ampere Characteristic. (T) R. R. Kikvidze. 10, 213 (1968) [10, 276 (1968)]
Diffusion of Zinc in Gallium Arsenide Containing a High Donor Concentration. (E) G. K. Malysh. 10, 246 (1968) [10, 310 (1968)]
Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]
Diffusion of Beryllium in Silicon Carbide. (E) Yu. P. Maslakovets, E. N. Mokhov, Yu. A. Vodakov, and G. A. Lomakina. 10, 634 (1968) [10, 809 (1968)]
The Relationship between Diffusion Parameters in Filamentary Crystals. (T) G. G. Surmava and F. N. Tavadze. 10, 714 (1968) [10, 910 (1968)]
Experimental Determination of the Coefficient of Radiation-Stimulated Diffusion in CdS. (E) M. A. Kaneev. 10, 726 (1968) [10, 922 (1968)]
Calculation of the Influence of Strong Electric Fields on the Activation Energy of Surface Diffusion. (T/E) I. L. Gufel'd. 10, 743 (1968) [10, 940 (1968)]
The Nature of the Secondary Dislocations Observed in Silicon after Diffusion. (E) V. M. Al'tshuller. 10, 901 (1968) [10, 1136 (1968)]
Influence of Complex Formation on Impurity Diffusion in Semiconductors. (T) V. V. Vas'kin and V. A. Uskov. 10, 985 (1968) [10, 1239 (1968)]
Diffusion in Al–Sb_2S_3 Films. (E) V. A. Repin, I. T. Aleksanyan, and A. F. Oborotov. 10, 992 (1968) [10, 1246 (1968)]
Investigation of Surface Self-Diffusion of Niobium in a Strong Electric Field by Means of a Field-Emission Microscope. 10, 1130 (1968) [10, 1425 (1968)]
Study of Surface Self-Diffusion of Tantalum by Field-Emission Microscopy. (E) D. M. Pautov and I. L. Sokol'skaya. 10, 1941 (1969) [10, 2473 (1968)]
Sign and Degree of Ionization of Molybdenum in a Nickel-Molybdenum Alloy. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1946 (1969) [10, 2480 (1968)]
Effect of Ultrasonic Treatment on the Diffusion of Antimony in Germanium. (E) O. V. Abramov, S. S. Gorelik, and V. P. Grabchak. 10, 1972 (1969) [10, 2514 (1968)]
Molecular Diffusion and NMR Spectra of Solids. (T) A. G. Lundin and S. P. Gabuda. 10, 1974 (1969) [10, 2516 (1968)]
Concentration Dependence of the Diffusion Coefficient of Zinc in Indium Arsenide. (E) B. I. Boltaks, S. Ya. Ksendzov, and S. I. Rembeza. 10, 2186 (1969) [10, 2778 (1968)]
Diffusion and Solubility of Silver in Indium Phosphide. (E) K. A. Arseni and B. I. Boltaks. 10, 2190 (1969) [10, 2783 (1968)]
Thermal Conductivity and Thermal Diffusivity of Platinum at High Temperatures. (E/T) V. E. Zinov'ev, R. P. Krentsis, and P. V. Gel'd. 10, 2228 (1969) [10, 2826 (1968)]
The Diffusion and Solubility of Copper in Indium Phosphide. (E) K. A. Arseni. 10, 2263 (1969) [10, 2864 (1968)]
Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitskii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]
Activation Energy for Migration of Ag and Au Atoms along Natural Cleavage Surfaces of Mica. (E) V. S. Postnikov, V. M. Ievlev, and I. V. Zolutukhin. 10, 2531 (1969) [10, 3189 (1968)]
Electrical Transport and the Sorent Effect in Molybdenum. (E) D. N. Vasil'kovskii and I. V. Zakurdaev. 10, 2886 (1969) [10, 3640 (1968)]
Vacancy Breakdown in Alkali-Halide Crystals under Self-Diffusion Conditions. (E) Ya. E. Geguzin and V. I. Solunskii. 10, 2910 (1969) [10, 3670 (1968)]
Self-Diffusion of Li^+ Ions in Lithium Fluoride Single Crystals. (E) A. N. Naumov and V. B. Ptashnik. 10, 2950 (1969) [10, 3710 (1968)]

ELECTRICAL PROPERTIES

Second-Order Nonlinear Conductivity for Band Electrons. (T) V. N. Genkin and P. M. Mednis. 10, 1 (1968) [10, 3 (1968)]
The Anisotropic Galvanomagnetic Effect in Ferromagnets. (T/E) L. N. Petrova. 10, 8 (1968) [10, 12 (1968)]
Influence of Specular Reflection on the Sondheimer Effect. (T) Yu. M. Goland. 10, 58 (1968) [10, 81 (1968)]
Investigation of the Field-Dependent Electron from Porous MgO Films. (E) N. L. Yasnopol'skii and A. É. Shabel'nikova. 10, 75 (1968) [10, 103 (1968)]
Instability of a Stationary-Wave Amplitude in CdS in Strong Drift Fields. (E) B. P. Vasil'ev and K. N. Vinogradov. 10, 106 (1968) [10, 144 (1968)]
Thermoelectric Power and Electrical Conductivity of Titanium and Zirconium Monocarbides in the Temperature Range 20–2000°C. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, and G. M. Klimashin. 10, 124 (1968) [10, 168 (1968)]
Dielectric Constant of a Conductor with an Anisotropic Conduction Band. (T) N. V. Fomin. 10, 133 (1968) [10, 179 (1968)]
Details of Observations of Cyclotron Resonance from Changes in the Static Conductivity. (E/T) E. M. Gershenzon, Yu. A. Gurvich, S. L. Orlova, and N. G. Ptitsyna. 10, 144 (1968) [10, 193 (1968)]
A Dynamic Study of the Quadratic Electrooptical Effect in Barium Titanate. (E) A. A. Arabidze and V. P. Kokoevs. 10, 151 (1968) [10, 202 (1968)]
Electric Field Gradients at Atomic Nuclei in Elastically Deformed $A^{III}B^{V}$-Type Crystals. (E/T) V. L. Bogdanov and V. V. Lemanov. 10, 159 (1968) [10, 212 (1968)]
Investigation of the Exciton Quadrupole Transition in Cu_2O in Electric and Magnetic Fields. (E/T) V. T. Agekyan, E. F. Gross, and A. G. Zhilich. 10, 164 (1968) [10, 218 (1968)]
Electric and Dielectric Properties of $PbZn_{1/3}Nb_{1/3}O_3$. (E) A. A. Berezhnoi, V. N. Bukhman, L. T. Kudinova, and I. E. Myl'nikova. 10, 192 (1968) [10, 255 (1968)]
Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium–Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]
Asymmetry of Current Passage through Metal–Dielectric–Metal Thin-Film Systems. (E) A. E. Gershinskii and É. G. Kostsov. 10, 200 (1968) [10, 263 (1968)]
Electrooptical Properties of Potassium–Sodium Niobate Single Crystals. (E) A. S. Sonin and P. A. Apkar'yants. 10, 234 (1968) [10, 296 (1968)]

Acoustic Paraelectric Resonance. (T) R. V. Saburova. 10, 236 (1968) [10, 299 (1968)]
Electrooptic Effect in Strontium Titanate Crystals. (E) A. S. Sonin and V. É. Perfilova. 10, 242 (1968) [10, 305 (1968)]
Franz-Keldysh Effect in Gallium Phosphide. (E) G. A. Chalikyan, V. K. Subashiev, and P. Kishan. 10, 348 (1968) [10, 442 (1968)]
Nonlinear Theory of Sound Amplification in a Piezoelectric Semiconductor with Traps. (T) R. Katilyus. 10, 359 (1968) [10, 458 (1968)]
Electrooptical Effect in $PbMg_{1/3}Nb_{2/3}O_3$ Crystals. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 365 (1968) [10, 467 (1968)]
Nonlinearity of the Polarization of Rochelle Salt in Strong Electric Fields. (E) V. V. Gladkii, E. I. Marchenko, and A. S. Sonin. 10, 375 (1968) [10, 478 (1968)]
Oscillations of a Plasma Medium in an External Electric Field. (T) S. P. Bakanov and A. A. Rukhadze. 10, 378 (1968) [10, 482 (1968)]
Investigation of Charge Compensation Mechanisms in Scheelite-Type Crystals Activated with Pr^{3+} Ions. (E) A. M. Morozov, E. G. Reut, and A. I. Ryskin. 10, 393 (1968) [10, 502 (1968)]
Angular Dependence of the Cyclotron Resonance for Hot Carriers in Germanium. (E/T) D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak. 10, 406 (1968) [10, 518 (1968)]
Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide. (E) V. M. Stuchebnikov, V. I. Tikhonov, and V. I. Fistul'. 10, 423 (1968) [10, 539 (1968)]
Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]
Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]
Nonlinearity of the Acoustoelectric Interaction in CdS. (E) E. P. Garshka, V. I. Samulionis, B.-P. P. Ketis, and A. S. Zhyulpa. 10, 480 (1968) [10, 611 (1968)]
Instability of a Temperature Gradient in a Highly Conductive Crystal of Low Symmetry. (T) L. É. Gurevich and E. F. Shender. 10, 491 (1968) [10, 625 (1968)]
Investigation of the Influence of Proton Bombardment on the Electrical Resistance of Thin Silver Films. (E) V. V. Chechetenko, L. P. Tishchenko, and Ya. M. Fogel'. 10, 502 (1968) [10, 638 (1968)]
Hall Effect and Electrical Resistivity of $CrTe_{1-x}Sb_x$ Alloys. (E) N. P. Grazhdankina, L. A. Matyushenko, and Yu. S. Bersenev. 10, 527 (1968) [10, 670 (1968)]
ESR Evidence of the State of Carriers in V_2O_5. (E) V. A. Ioffe and I. B. Patrina. 10, 639 (1968) [10, 815 (1968)]
The Relative Difference in the Ionic Mobilities of Lithium Li_6^+ and Li_7^+ Isotopes in LiF Single Crystals. (T/E) V. B. Ptashnik and A. N. Naumov. 10, 690 (1968) [10, 880 (1968)]
Formation of Spin-Echo Signals under the Combined Action of Local Electric and Magnetic Fields. (T) I. S. Donskaya and A. R. Kessel'. 10, 694 (1968) [10, 885 (1968)]
Influence of Electron Bombardment on Electrical Properties of Thin Te Films. (E) L. I. Ivankiv and Z. V. Solyanik. 10, 715 (1968) [10, 911 (1968)]
A New Crystal with a Large Electrooptical Effect. (E) A. S. Vasilevskaya, L. I. Kuznetsova, I. S. Rez, and A. S. Sonin. 10, 733 (1968) [10, 928 (1968)]
Electrooptic Effect in the Ionic Model of a Barium Titanate Single Crystal. (T/E) L. B. Meisner. 10, 741 (1968) [10, 938 (1968)]
Nonlinear Electric-Field Effects in Paramagnetic Resonance. (T/E) A. B. Roitsin. 10, 751 (1968) [10, 948 (1968)]
Kinetic Properties of Metals in an Electromagnetic Field. (T) V. L. Mandrosov. 10, 810 (1968) [10, 1025 (1968)]
The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^V$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]
Alternating Component of the Acoustoelectric Current. (E) P. S. Karla and É. P. Garshka. 10, 852 (1968) [10, 1076 (1968)]
Oscillations of the Magnetoresistance in HgTe. (E) I. M. Tsidil'kovskii and A. I. Ponomarev. 10, 859 (1968) [10, 1085 (1968)]
Galvanomagnetic Properties of Tellurium at Very Low Temperatures. (E) V. A. Noskin, I. I. Farbshtein, and S. S. Shalyt. 10, 881 (1968) [10, 1112 (1968)]
Excitation of Electromagnetic Waves in a Solid-State Plasma Having a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze and E. P. Fetisov. 10, 911 (1968) [10, 1147 (1968)]
Desorption of Titanium from Tungsten in a Strong Electric Field. (E) G. G. Vladimirov. 10, 957 (1968) [10, 1207 (1968)]
Determination of the Number of Carriers in Pyrolytic Graphite under Pressure. (E) V. V. Kechin, A. I. Likhter, and G. N. Stepanov. 10, 987 (1968) [10, 1242 (1968)]
Investigation of the Charged States of Iron in Some Cobalt Compounds Using the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 1000 (1968) [10, 1254 (1968)]
Correlation between Changes in the Lattice Constant and Electrical Conductivity of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva and A. A. Shishelov. 10, 1002 (1968) [10, 1256 (1968)]
A New Method for Determining the Dependence of the Carrier Density on Pressure in Semimetals. (T/E) N. B. Brandt, N. Ya. Minina, and Yu. A. Pospelov. 10, 1011 (1968) [10, 1268 (1968)]
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]
Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]
Thermal Conductivity and Lorenz Number of Solid and Liquid Gallium. (T) R. P. Yurchak and B. P. Smirnov. 10, 1065 (1968) [10, 1340 (1968)]
Determination of Conductivity Parameters in Potassium Halides. (E) Ya. N. Pershits and E. V. Pavlov. 10, 1125 (1968) [10, 1418 (1968)]
Investigation of Surface Self-Diffusion of Niobium in a Strong Electric Field by Means of a Field-Emission Microscope. (E) G. A. Odishariya. 10, 1130 (1968) [10, 1425 (1968)]
Cutoff of Dissipative Effects in Multivalley Semiconductors. (T) I. I. Vosilyus and I. B. Levinson. 10, 1158 (1968) [10, 1462 (1968)]
Mechanisms of Unipolar Direct Electrical Conductivity of Ionic Insulators. (E) N. P. Bogoroditskii, N. E. Timoshchenko, and I. D. Fridberg. 10, 1171 (1968) [10, 1480 (1968)]
Damping and Dispersion of Electric and Magnetic Oscillations in a Two-Phase Mixture. (T) S. Ya. Geguzina and M. A. Krivoglaz. 10, 1180 (1968) [10, 1492 (1968)]
Phonon Effects in Dielectrics in an External Electric Field. (T) I. V. Ioffe. 10, 1191 (1968) [10, 1506 (1968)]
Superheating Instability in a Semiconductor Plasma in Crossed Electric and Magnetic Fields. (T) Sh. M. Kogan. 10, 1213 (1968) [10, 1536 (1968)]
Carrier Photogeneration and Luminescence Processes in Pyrene. (E) A. A. Avdeenko, T. L. Dobrovol'skaya, and Yu. V. Naboikin. 10, 1254 (1968) [10, 1579 (1968)]
Temperature Dependence of Electrical Strength of SiO_2 Films. (E) V. F. Korzo. 10, 1256 (1968) [10, 1582 (1968)]
Transport of Vacancies and Electrical Processes in Cadmium Sulfide Crystals. (E) A. S. Gershun and B. L. Timan. 10, 1258 (1968) [10, 1583 (1968)]
The Effect of Impurity Anions on the Electric Conductivity of Alkali-Halide Crystals. (E) Ya. N. Pershits and N. N. Vasil'ev. 10, 1262 (1968) [10, 1587 (1968)]
Zero-Slope Points in Crystals. (T) N. V. Kudryavtseva. 10, 1280 (1968) [10, 1616 (1968)]

Theory of a Gradient Instability of a Current in Semiconductors. (T) R. Z. Vitlina and S. K. Savvinykh. 10, 1292 (1968) [10, 1634 (1968)]

Theory of a Gradient Instability in the Absence of a Magnetic Field (A Reply to the Remarks of R. Z. Vitlina and S. K. Savvinykh). (T) L. É. Gurevich and I. V. Ioffe. 10, 1298 (1968) [10, 1643 (1968)]

Carrier Mobility in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 1325 (1968) [10, 1678 (1968)]

Electrical Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 1374 (1968) [10, 1743 (1968)]

Effect of the Complex Valence Band of Sb_2Te_3 on Thermal and Electrical Properties. (E) I. A. Smirnov, A. A. Andreev, and V. A. Kutasov. 10, 1403 (1968) [10, 1782 (1968)]

Excitation of Field Splashes within Metals Via Electron Trajectory Chains in Surface-Normal Magnetic Fields. (T/E) V. P. Naberezhnykh and N. K. Dan'shin. 10, 1422 (1968) [10, 1807 (1968)]

Influence of an Electric Field on Monomolecular and Dimolecular Recombination in Luminescent Ionic Crystals. (E) V. P. Denks and V. I. Leiman. 10, 1426 (1968) [10, 1812 (1968)]

Optical Detection and Piezoelectric Effect in Some Electrooptical Crystals. (E) B. N. Morozov and V. M. Nesterenko. 10, 1442 (1968) [10, 1833 (1968)]

Thermal and Electrical Properties of Ferroelectric Triglycine Selenate in the Vicinity of the Curie Point. (E) B. A. Strukov, S. A. Taraskin, and V. M. Varikash. 10, 1445 (1968) [10, 1836 (1968)]

Electroluminescence of Single Crystals of Sodium-Zinc Germanate in a Constant Electric Field. (E) K. A. Verkhovskaya, I. P. Kuz'mina, A. N. Lobachev, and V. M. Fridkin. 10, 1504 (1968) [10, 1906 (1968)]

Acoustoelectric Effect in a Magnetic Field. (T) Yu. M. Gal'perin and V. D. Kagan. 10, 1600 (1968) [10, 2037 (1968)]

Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]

Theory of Electron Deflection by Ultrasonic Currents in Conductors. (T) P. E. Zil'berman. 10, 1635 (1969) [10, 2088 (1968)]

Coupled Optical Phonons and Magnons and the Interaction of an Electromagnetic Field with an Antiferromagnet. (T) V. M. Genkin and G. M. Genkin. 10, 1712 (1969) [10, 2187 (1968)]

Kinetics of the Electromechanical Effect. (E) S. A. Varchenya, I. P. Spalvin, G. P. Upit, and V. I. Flerov. 10, 1717 (1969) [10, 2194 (1968)]

Electric Conductivity of the Lanthanum-Cerium System in the Solid and in the Liquid State. (E) F. Gaibullaev, A. R. Regel', and Kh. Khusanov. 10, 1742 (1969) [10, 2220 (1968)]

Additional Signal Generation by an Ultrasonic Wave in CdS in an Alternating Electric Field. (E) T. M. Kaekina. 10, 1766 (1969) [10, 2244 (1968)]

Field-Dependence of Soft Ferroelectric Mode Frequencies. (T) P. I. Konsin and N. N. Kristofel'. 10, 1773 (1969) [10, 2250 (1968)]

Acoustoelectric Effect in Many-Valley Semiconductors and Semimetals in Quantizing Magnetic Fields. (T) Yu. M. Gal'perin. 10, 1840 (1969) [10, 2338 (1968)]

Influence of the Polarization Charges and External Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]

Impedance of an Inhomogeneous Crystal. (T) L. É. Gurevich, I. V. Ioffe, and B. I. Shapiro. 10, 1860 (1969) [10, 2365 (1968)]

Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]

Existence of the Electromechanical Effect in Germanium. (R) M. S. Ablova and T. A. Kontorova. 10, 2000 (1969) [10, 2540 (1968)]

Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{1/3}O_3$, $PbMg_{1/3}Ta_{1/3}O_3$, and $PbNi_{1/3}Nb_{1/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]

Sign Reversal of the Electromechanical Effect. (E) N. N. Novikov and V. A. Makara. 10, 2128 (1969) [10, 2704 (1968)]

Investigation of Structure and Electrical Conductivity of Molybdenum and Titanium Thin Films Deposited on NaCl Single Crystals. (E) R. S. Panchishin, Z. V. Stasyuk, and D. M. Freik. 10, 2149 (1969) [10, 2731 (1968)]

Optical Properties Associated with the Conduction Mechanism of Ferrites. (E) A. A. Samokhvalov, N. M. Tutikov, and G. P. Skornyakov. 10, 2172 (1969) [10, 2760 (1968)]

Characteristics of the Propagation of Electromagnetic Waves in Gyro-Anisotropic Media. (T) M. I. Kaganov and R. P. Yankelevich. 10, 2181 (1969) [10, 2771 (1968)]

Motion of Dislocations in LiF Crystals in an Electric Field. (E) L. B. Zuev and G. E. Turchinovich. 10, 2214 (1969) [10, 2811 (1968)]

Quantum Oscillations of Electrical Conductivity of Thin Films in a Magnetic Field. (T/E) V. I. Ryzhii. 10, 2286 (1969) [10, 2887 (1968)]

Propagation of Ultrasound in a Semiconductor in the Presence of a High-Frequency Electric Field. (T) É. M. Épshtein. 10, 2325 (1969) [10, 2945 (1968)]

Conversion of Ultrasonic into Electrical Oscillations by KCl Single Crystals (E/T) Kh. M. Khaitlov, Ya. Sh. Palagashvili, A. I. Agaev, and V. M. Zuev. 10, 2356 (1969) [10, 2987 (1968)]

Dispersion and Damping of Electromagnetic Waves in Mixed Molecular Crystals. (T) V. I. Sugakov. 10, 2363 (1969) [10, 2995 (1968)]

Electrical Conductivity of a Crystal Plate with a Many-Valley Carrier Energy Spectrum. (T) Yu. I. Gorkun and É. I. Rashba. 10, 2406 (1969) [10, 3053 (1968)]

Quantum Oscillations of the Kinetic and Photoelectric Coefficients on n-Type Bismuth Telluride (Bi_2Te_3). (E) R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman. 10, 2432 (1969) [10, 3087 (1968)]

Motion of a Dislocation Loop in an Ionic Crystal in an External Electric Field. (T) I. G. Margvelashvili, R. A. Polyan, and Z. K. Saralidze. 10, 2475 (1969) [10, 3134 (1968)]

Strong-Field Domain Parameter Change Times during Small Displacement Field Changes. (T) M. S. Shur. 10, 2479 (1969) [10, 3138 (1968)]

Electrical Conductivity of Ferrites in High Electric Fields at Superhigh Frequency. (E) S. A. Ismailov, A. B. Davydov, and A. A. Samokhvalov. 10, 2505 (1969) [10, 3164 (1968)]

Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. (E) F. Gaibullaev, M. Mamadaliev, A. R. Regel', and Kh. Khusanov. 10, 2516 (1969) [10, 3174 (1968)]

Phonon Heating in a Semiconductor in a Strong Electric Field and a Quantizing Magnetic Field and Its Effect on the Electrical Conductivity. (E) L. É. Gurevich and T. M. Gasymov. 10, 2577 (1969) [10, 3258 (1968)]

Band Form for F-Center Absorption of Light in an External Field. (T) Yu. E. Perlin and E. Yu. Perlin. 10, 2706 (1969) [10, 3423 (1968)]

Magnetoelectric Effect and Electromagnetic Waves in Crystals. (T) V. N. Lyubimov and L. Ya. Karpov. 10, 2787 (1969) [10, 3502 (1968)]

Electrodynamics of a Crystal with Fluctuating Parameters. (T) F. G. Bass, G. A. Beziashvili, and Yu. S. Monin. 10, 2822 (1969) [10, 3553 (1968)]

Pseudo-Stark Splitting of EPR Lines of Cr^{3+} in α-$MgMoO_4$. (E) V. G. Kozlov and M. L. Meil'man. 10, 2919 (1969) [10, 3679 (1968)]

Effect of Electric Field and Temperature on Exciton Radiation Intensity in GaP. (E) B. M. Ashkinadze, I. P. Kretsu, S. L. Pyshkin, S. M. Ryvkin, and I. D. Yaroshetskii. 10, 2921 (1969) [10, 3681 (1968)]

Luminescence of Rock Salt in Very Strong Electric Fields. (E) G. A. Vorob'ev and N. S. Nesmelov. 10, 2932 (1969) [10, 3691 (1968)]
The Effect of a Field on the Equilibrium Concentration of Yttrium Atoms Adsorbed on a Tungsten Point. (E) B. M. Palyukh and L. L. Sivers. 10, 2962 (1969) [10, 3723 (1968)]
Electromechanical Effect in Tellurium. (E) G. B. Bagduev and R. M. Idrisova. 10, 2968 (1969) [10, 3729 (1968)]
Electromagnetic Excitation of Magnetostatic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 2980 (1969) [10, 3740 (1968)]
Influence of an Electric Field on Phonon Lines and the Point Symmetry of Various Electron Coloration-Centers of NaF. (E) A. A. Kaplyanskii, V. N. Medvedev, and O. D. Gavrillov. 10, 2982 (1969) [10, 3742 (1968)]

ELECTRON AND ION EMISSION

Investigation of the Field-Dependent Electron Emission from Porous MgO Films. (E) N. L. Yasnopol'skii and A. É. Shabel'nikova. 10, 75 (1968) [10, 103 (1968)]
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mul'tanovskaya. 10, 397 (1968) [10, 507 (1968)]
Investigation of Structure Defects in Lithium Fluoride by the Thermally Stimulated Electron Emission Method. (E) G. G. Knab and A. A. Urusovskaya. 10, 505 (1968) [10, 641 (1968)]
Investigation of the Structure and Work Function of Platinum Films on Tungsten and of Adsorption of Cesium on Such Films. (E) A. G. Naumovets and A. G. Fedorus. 10, 627 (1968) [10, 801 (1968)]
Emission Parameters of Faces of a Niobium Single Crystal. (E) O. D. Protopopov and I. V. Strigushchenko. 10, 747 (1968) [10, 943 (1968)]
Electron Emission Due to Bombardment of NaCl and KCl Single Crystals with Slow Inert-Gas Ions Incident at Various Angles. (E) N. N. Petrov, N. F. Volkov, and A. I. Kondrashev. 10, 832 (1968) [10, 1053 (1969)]
Potential and Kinetic Electron Emission from the (110) and (111) Faces of a Mo Single Crystal. (E) U. A. Arifov, R. R. Rakhimov, and Kh. Dzhurakulov. 10, 925 (1968) [10, 1166 (1968)]
Behavior of Cesium on the Faces of a Large Tungsten Single Crystal. (E) N. A. Gorbatyi, L. V. Reshetnikova, and V. M. Sultanov. 10, 940 (1968) [10, 1185 (1968)]
Mechanism of the Origin of the Fine Structure of the Angular Dependence of the Secondary-Electron Emission Coefficient of Single Crystals. (E) A. P. Komar, Yu. S. Korobochko, B. D. Grachev, and V. I. Mineev. 10, 1222 (1968) [10, 1547 (1968)]
Nature of the Exoelectron Emission from the Surface of Silicon. (E) Yu. I. Kozlov and V. I. Sokolov. 10, 1237 (1968) [10, 1561 (1968)]
Angular Dependence of Secondary-Emission Characteristics of Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1246 (1968) [10, 1570 (1968)]
Calculation of the Inelastic Backscattering and Transmission Coefficients of Medium-Energy Electrons. (T) A. A. Ostroukhov. 10, 1649 (1969) [10, 2105 (1968)]
Thermoelectronic Parameters of the Faces of a Nickel Single Crystal. (E) A. Kashetov and N. A. Gorbatyi. 10, 1673 (1969) [10, 2135 (1968)]
Temperature Dependence of the Secondary Emission of Magnesium Oxide Containing Excess Magnesium. (E) V. L. Borisov and N. M. Gnuchev. 10, 1752 (1969) [10, 2230 (1968)]
Effect of Temperature and Ion Bombardment on the Angular Dependences of the Secondary-Electron Emission from a Germanium Single Crystal. (E) I. A. Abroyan and A. I. Titov. 10, 2716 (1969) [10, 3432 (1968)]
Use of Secondary Ionic Emission to Study Bulk Processes in Solids. (T/E) V. F. Kozlov, V. M. Pistryak, and Ya. M. Fogel'. 10, 2952 (1969) [10, 3713 (1968)]
Ion-Electron Emission: Formation and Annealing of Radiation Defects during Bombardment of Germanium by Xenon Ions. (E) I. A. Abroyan, V. S. Belyakov, and A. I. Tutov. 10, 2965 (1969) [10, 3726 (1968)]

ELECTRONIC STATES

Second-Order Nonlinear Conductivity for Band Electrons. (T) V. N. Genkin and P. M. Mednis. 10, 1 (1968) [10, 3 (1968)]
Nonadiabatic Transitions of Impurities. (T) V. I. Osherov. 10, 21 (1968) [10, 30 (1968)]
Dielectric Constant of a Conductor with an Anisotropic Conduction Band. (T) N. V. Fomin. 10, 133 (1968) [10, 179 (1968)]
Investigation of the Exciton Quadrupole Transition in Cu_2O in Electric and Magnetic Fields. (E/T) V. T. Agekyan, E. F. Gross, and A. G. Zhilich. 10, 164 (1968) [10, 218 (1968)]
Investigation of the Band Structure of Amorphous As_2Se_3 by an Ultrasoft X-Ray Spectroscopy Method. (E) V. I. Kruglov and T. M. Zimkina. 10, 170 (1968) [10, 226 (1968)]
Dependence of the Forbidden Energy Gap in Cadmium Sulfide Films on Film Thickness. (E/T) A. G. Stasenko. 10, 186 (1968) [10, 248 (1968)]
Effect of Pressure on the Electron-Effective Mass in Indium Antimonide. (E) E. S. Itskevich and V. A. Sukhoparov. 10, 264 (1968) [10, 327 (1968)]
Effects of Optical Phonons on the Shape of the Wannier-Mott Exciton Absorption Band. (T) S. A. Moskalenko, M. I. Shmigiyuk, and B. I. Chinik. 10, 279 (1968) [10, 351 (1968)]
Formation of New Local Centers in CdS Single Crystals in the Presence of Free Electrons and Holes. (E) N. E. Korsunskaya, I. V. Markevich, and M. K. Sheinkman. 10, 409 (1968) [10, 522 (1968)]
Scattering of Light by Charged Centers in Semiconductors. (T) A. A. Grinberg and N. I. Kramer. 10, 458 (1968) [10, 582 (1968)]

Absorption of Sound in Crystals with Quasilocal States. (T) B. I. Shklovskii. 10, 498 (1968) [10, 634 (1968)]
Spin-Lattice Relaxation in M_3X Superconducting Compounds with Two Overlapping Energy Bands. (T) I. I. Fal'ko and A. D. Serdyuk. 10, 541 (1968) [10, 688 (1968)]
Kβ X-Ray Spectra of Fe in Iron Oxides. (E) K. M. Kolobova, S. A. Nemnonov, and E. V. Agapova. 10, 571 (1968) [10, 729 (1968)]
Influence of the Structure of a Substance on the Coincidence Bremsstrahlung Spectrum. (T) V. V. Batygin. 10, 580 (1968) [10, 740 (1968)]
Investigation of the Energy Structure of Al_2O_3 and AlN by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev. 10, 597 (1968) [10, 763 (1968)]
Quantum Theory of Free-Electron Dielectric Constant in Semiconductors. (T) A. G. Aronov, G. E. Pikus, and D. Sh. Shekhter. 10, 645 (1968) [10, 822 (1968)]
Influence of the Crystal Structure on the Loss of Energy by Fast Protons in Single Crystals of Alkali Halides. (E) É. T. Shipatov and B. A. Kononov. 10, 670 (1968) [10, 854 (1968)]
Formation Mechanism of Lattice Defects and F-Centers by Electronic Subsystem Excitation. (T) V. L. Vinetskii. 10, 680 (1968) [10, 867 (1968)]
Mechanism of Radical Recombination Luminescence of Solids with a Wide Forbidden Band. (E) A. I. Bazhin, V. V. Styrov, and V. A. Sokolov. 10, 712 (1968) [10, 908 (1968)]
Photoeffect Due to Generation of Excitons in Semiconductors. (E) I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova. 10, 770 (1968) [10, 974 (1968)]
Spectrum of Exciton Complexes in Hexagonal ZnS Crystals. (E) E. F. Gross, L. G. Suslina, and E. B. Shadrin. 10, 818 (1968) [10, 1036 (1968)]
Double Refraction and Dichroism of UHF Waves Due to Hot Electrons in n-Ge and n-Si. (E/T) A. B. Davydov and R. V. Pomortsev. 10, 870 (1968) [10, 1098 (1968)]

Quantum Oscillations of the Thermomagnetic Coefficients for the Phonon-Drag Effect. (T) Yu. M. Gal'perin. 10, 915 (1968) [10, 1152 (1968)]
Reflection of Nickel in the Ultraviolet Region at Temperatures below and above the Curie Point. (E) R. G. Yarovaya and L. I. Timchenko. 10, 983 (1968) [10, 1237 (1968)]
A New Method for Determining the Dependence of the Carrier Density on Pressure in Semimetals. (T/E) N. B. Brandt, N. Ya. Minina, and Yu. A. Pospelov. 10, 1011 (1968) [10, 1268 (1968)]
Effect of Anisotropy on the Magnetostatic Spectrum of a Ferrite Sphere. (E) A. I. Pil'shchikov and N. S. Sedletskaya. 10, 1035 (1968) [10, 1298 (1968)]
Exciton-Absorption Profile of Gallium Phosphide. (T/E) V. K. Subashiev and G. A. Chalikyan. 10, 1067 (1968) [10, 1343 (1968)]
The Influence of Small Polarons on Lattice Vibrations. (T) V. V. Bryksin and Yu. A. Firsov. 10, 1083 (1968) [10, 1364 (1968)]
Investigation of the Energy Structure of Silicon Carbide and Silicon Nitride by Ultrasoft X-Ray Spectroscopy. (E) I. I. Zhukova, V. A. Fomichev, A. S. Vinogradov, and T. M. Zimkina. 10, 1097 (1968) [10, 1383 (1968)]
Ultrasoft X-Ray Spectrum of Iodine in KI. (E) T. M. Zimkina and V. A. Fomichev. 10, 1104 (1968) [10, 1392 (1968)]
Grüneisen Coefficient of an Almost-Degenerate Electron Gas. (T) V. S. Rogov. 10, 1188 (1968) [10, 1502 (1968)]
Phonon Drag in Antimony. (E) N. A. Red'ko and S. S. Shalyt. 10, 1233 (1968) [10, 1557 (1968)]
Temperature Dependence of Forbidden-Band Width in $PbTe_x \cdot Se_{1-x}$ Solid Solutions. (E) E. D. Devyatkova and V. A. Saskyan. 10, 1239 (1968) [10, 1563 (1968)]
Zero-Slope Points in Crystals. (T) N. V. Kudryavtseva. 10, 1280 (1968) [10, 1616 (1968)]
Two-Photon Absorption Mechanism in $CaF_2:Ho^{3+}$ Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1968) [10, 1645 (1968)]
Electroluminescence of Gallium Phosphide near the Forbidden Band. (E) A. N. Pikhtin and D. A. Yas'kov. 10, 1311 (1968) [10, 1660 (1968)]
Polarization Effect on Exciton Absorption Lines. (T) A. G. Zhilich. 10, 1375 (1968) [10, 1746 (1968)]
Exciton Annihilation at a Metal-Dielectric Interface. (T) V. M. Agranovich, Yu. V. Konobeev, and M. A. Mekhtiev. 10, 1383 (1968) [10, 1754 (1968)]
Effect of the Complex Valence Band of Sb_2Te_3 on Thermal and Electrical Properties. (E) I. A. Smirnov, A. A. Andreev, and V. A. Kutasov. 10, 1403 (1968) [10, 1782 (1968)]
Temperature Broadening, Shifts, and Line Shapes in the Quasilinear Spectra of Organic Molecules in n-Paraffin Solid Solutions. (E) R. I. Personov and V. V. Solodunov. 10, 1454 (1968) [10, 1848 (1968)]
A Comparative Study of the Energy Distribution of Secondary Electrons and Photoelectrons Excited by Soft X Rays. (E) N. G. Nakhodkin and P. V. Mel'nik. 10, 1462 (1968) [10, 1859 (1968)]
Bond States of Electrons and Neutral Impurities. (T) B. V. Petukhov and Yu. I. Polyakov. 10, 1485 (1968) [10, 1887 (1968)]
Interaction of Electrons with Germanium Single Crystals. (E) A. I. Titov. 10, 1489 (1968) [10, 1891 (1968)]
Theory of Cyclotron Resonance of Hot Electrons. (T) L. D. Abuladze and Z. S. Kachlishvili. 10, 1500 (1968) [10, 1902 (1968)]
Investigation of Statistics of Electron Emission from Solids. (E) V. N. Shchemelev and E. P. Savinov. 10, 1502 (1968) [10, 1904 (1968)].
Angular Dependence of the Secondary Electron Emission Coefficient of Single-Crystal Silicon in the Range of Incident Electron from 100 to 2000 eV. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1512 (1968) [10, 1913 (1968)]
Optical Transitions to Degenerate Localized Levels. (T) Yu. E. Perlin. 10, 1531 (1968) [10, 1941 (1968)]
Form of the Absorption Curve for Interaction of Light with Small Polarons. (T) Yu. A. Firsov. 10, 1537(1969) [10, 1950 (1968)]
Small Magnetic Polarons in Ferromagnets at Low Temperatures. (T) A. L. Zilichikhis and Yu. P. Irkhin. 10, 1554 (1969) [10, 1974 (1968)]
Degree of Ionization of Iron Atoms. (E/T) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1589 (1969) [10, 2022 (1968)]
Exciton States in Alkali-Halide Crystals. (T) T. A. Kudykina and K. B. Tolpygo. 10, 1608 (1969) [10, 2049 (1968)]
Calculation of the Inelastic Backscattering and Transmission Coefficients of Medium-Energy Electrons. (T) A. A. Ostroukhov. 10, 1649 (1969) [10, 2105 (1968)]
Current-Voltage Characteristics of Electron-Hole Plasma under Pinch Effect. (T) A. E. Stefanovich. 10, 1687 (1969) [10, 2153 (1968)]
Application of the Wigner-Seitz Cellular Method for Calculating Electronic Structures and Polymorphic Transitions in Alkali Metals under Pressure. (T) R. G. Arkhipov, E. S. Alekseev, and A. P. Kochkin. 10, 1725 (1969) [10, 2202 (1968)]
Pressure Dependence of the Electron-Effective Mass in InSb. (E) M. M. Aksel'rod, K. M. Demchuk, I. M. Tsidil'kovskii, E. L. Broide, and K. P. Rodionov. 10, 1733 (1969) [10, 2211 (1968)]
Lattice Distortion and Energies of Bonds between Tl^+ Centers and Other Light Anions in NaCl-Type Crystals. (E) N. N. Kristofel' and V. N. Salomatov. 10, 1778 (1969) [10, 2255(1968)]
Classification and Shape of Characteristic Energy-Loss Lines. (T) V. V. Rumyantsev. 10, 1793 (1969) [10, 2275 (1968)]
Theory of the Mobility of Small Polarons. (T) I. G. Lang. 10, 1873 (1969) [10, 2381 (1968)]
The Fine Structure of the Electron-Vibrational Spectrum of Extrinsic Absorption or Emission of Light Due to the Interaction of Electrons with Localized Modes. (T) K. V. Korsak and M. A. Krivoglaz. 10, 1952 (1969) [10, 2488 (1968)]
Nonadiabatic Transitions in One-Dimensional Periodic Systems. (T) E. S. Medvedev and V. I. Osherov. 10, 1968 (1969) [10, 2509 (1968)]
Electronic State of Sodium Atoms Adsorbed on a (110) Face of Tungsten. (E) E. V. Klimenko and A. G. Naumovets. 10, 1980 (1969) [10, 2522 (1968)]
Stimulation of Exciton Lines in a Strong Magnetic Field. (T) M. I. D'yakonov, D. L. Mitchell, and A. L. Éfros. 10, 2021 (1969) [10, 2561 (1968)]
The Relaxation Time for Small-Radius Polarons. (T) V. V. Bryksin and Yu. A. Firsov. 10, 2049 (1969) [10, 2600 (1968)]
An Investigation of the Charged States of Iron in Cobalt Oxides by the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e and P. P. Seregin. 10, 2066 (1969) [10, 2624 (1968)]
Reflection Spectrum and Band Structure of TlSe. (E) F. M. Gashimzade and M. A. Nizametdinova. 10, 2097 (1969) [10, 2665 (1968)]
Channeling of High Energy Protons in Ionic Single Crystals. (E/T) É. T. Shipatov. 10, 2132 (1969) [10, 2709 (1968)]
Exciton Mechanism of Generation of F Centers in Defectless Parts of Ionic Crystals. (E/T) Ch. B. Lushchik, I. K. Vitol, and M. A. Élango. 10, 2166 (1969) [10, 2753 (1968)]
Energy Migration and Quenching in Uranyl Salts at Low Temperatures. (E) I. N. Abramova, A. P. Abramov, and N. A. Tolstoi. 10, 2226 (1969) [10, 2824 (1968)]
Mandel'shtam-Brillouin Scattering in Crystals with Amplification of Sound Waves. (T) V. M. Ryaskov. 10, 2231 (1969) [10, 2829 (1968)]
Anomalous Penetration of Charged Particles through a Crystal. (T) M. A. Kumakhov. 10, 2254 (1969) [10, 2854 (1968)]
The Energy Spectrum of Gallium Arsenide Doped with Silicon. (E) Zh. I. Alferov, D. Z. Garbuzov, E. P. Morozov, I. I. Protasov, and D. N. Tret'yakov. 10, 2260 (1969) [10, 2861 (1968)]
Band Structure of Cubic BN. (T) V. G. Aleshin, V. P. Smirnov, and B. V. Gantsevich. 10, 2282 (1969) [10, 2884 (1968)]

The Decay of a Volume and Surface Plasmon with the Excitation of an Electron-Hole Pair. (T) V. M. Agranovich and M. A. Mekhtiev. 10, 2304 (1969) [10, 2913 (1968)]
Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. (T) V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich. 10, 2309 (1969) [10, 2920 (1968)]
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]
Electron-Nuclear Double Resonance of A Centers in Mixed KCl+LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ischenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) L. E. Blagoskionskaya, E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]
Hall Effect in Polaron Semiconductors. (T) Yu. A. Firsov. 10, 2387 (1969) [10, 3027 (1968)]
Electrical Conductivity of a Crystal Plate with a Many-Valley Carrier Energy Spectrum. (T) Yu. I. Gorkun and É. I. Rashba. 10, 2406 (1969) [10, 3053 (1968)]
Investigation of the Energy Structure of MgO by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev, T. M. Zimkina, and I. I. Zhukova. 10, 2421 (1969) [10, 3073 (1968)]
Variational Calculation of the Energy Levels of a Hydrogen-like System in a Magnetic Field. (T) E. P. Pokatilov and M. M. Rusanov. 10, 2458 (1969) [10, 3117 (1968)]
Interaction of Excitons with Optical Phonons in the Photoconductivity Process. (E) B. V. Novikov, V. I. Safarov, and M. L. Shubnikov. 10, 2484 (1969) [10, 3144 (1968)]
Change in the Refractive Index of Ruby Due to Population Inversion. (E) N. A. Anisimov and G. L. Kononchuk. 10, 2491 (1969) [10, 3150 (1968)]
Ionization of Diamagnetic Excitons and Quantum Effects in the Valence Band of Germanium. (E) B. P. Zakharchenya, R. P. Seisyan, and A. V. Varfolomeev. 10, 2493 (1969) [10, 3153 (1968)]
Widths of Coulomb-Center Levels in a Strong Magnetic Field. (T/E) S. D. Beneslavskii. 10, 2503 (1969) [10, 3162 (1968)]
Spectral X-Ray Sensitivity, Energy of Formation of a Carrier Pair, and Quantum Yield in Polymorphic Systems Based on Lead Oxide. (E) M. L. Galantseva and V. A. Izvozchikov. 10, 2509 (1969) [10, 3168 (1968)]
Dependence of the Density-of-States Effective Mass on the Current-Carrier Concentration and Temperature in the n-Type Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov and A. R. Regel'. 10, 2513 (1969) [10, 3171 (1968)]
Oxidation of Tungsten at Room Temperature. (E) V. F. Rybalko, V. Ya. Kolot, and Ya. M. Fogel'. 10, 2518 (1969) [10, 3176 (1968)]
Experimental Determination of the Valence of Titanium at Cubic Centers in CaF_2. (E) M. M. Zaitov and V. G. Stepanov. 10, 2520 (1969) [10, 3178 (1968)]
Optical Dichroism of Absorption Bands and Structure of Certain Hole Centers in MeF_2–RE Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 10, 2563 (1969) [10, 3239 (1968)]
Quandrupole and Second-Order Effects in the Electron-Nuclear-Double-Resonance Spectra of F Centers in KCl Due to Interactions with a K^{41} Isotope. (E/T) N. P. Baran, M. F. Deigen, V. Ya. Zevin, and M. A. Ruban. 10, 2640 (1969) [10, 3342 (1968)]
Effects Associated with a Defect-Enriched Layer near a Boundary or in a Thin Film of a Nonmetallic Crystal. (T) M. A. Krivoglaz. 10, 2645 (1969) [10, 3348 (1968)]
Effective Fields in Crystals Having the Perovskite, Pyrochlore, and Rutile Structures. (T) S. N. Koikov and M. N. Rozova. 10, 2661 (1969) [10, 3369 (1968)]
The Appearance of a Second Conductivity Zone of GaSb in the Shubnikov-De Haas Effect. (E/T) D. V. Mashovets, R. V. Parfen'ev, and V. S. Vekshina. 10, 2700 (1969) [10, 3417 (1968)]
The Two Charged States of Tin Impurity in Ag, Au, and Cu. (E/T) V. V. Chekin and A. P. Vinnikov. 10, 2770 (1969) [10, 3486 (1968)]
Theory of Shallow Surface States. (T) A. A. Karpushin. 10, 2793 (1969) [10, 3515 (1968)]
Nonlinear Thermal Conductivity of Dielectrics in the Region of Viscous Flow of a Phonon Gas. (T) Kh. Nil'sen and B. I. Shklovskii. 10, 2857 (1969) [10, 3602 (1968)]
The Crystal Field in Rutiles and the EPR Spectrum of Ions with a d^1-Shell. (T) B. P. Berkovskii, M. P. Votinov, B. D. Piterkin, and D. D. Suchkov. 10, 2867 (1969) [10, 3615 (1968)]
Gamma-Optical Transitions Stimulated by a Laser. (T/E) A. V. Mitin. 10, 2880 (1969) [10, 3632 (1968)]
Hyperfine Interaction in Impurity Centers and Complexes with Degenerate Electronic Terms. (T) I. B. Bersuker and I. Ya. Ogurtsov. 10, 2894 (1969) [10, 3651 (1968)]
Some Possibilities for Investigating the Structure of Electronic Spectra Using the Quantum-Size Effect. (T) V. N. Lutskii and E. P. Fesenko. 10, 2902 (1969) [10, 3661 (1968)]
Effect of Electric Field and Temperature on Exciton–Radiation Intensity in GaP. (E) B. M. Ashkinadze, I. P. Kretsu, S. L. Pyshkin, S. M. Ryvkin, and I. D. Yaroshetskii. 10, 2921 (1969) [10, 3681 (1968)]
Energy Spectrum of Boron in Silicon Carbide. (E) V. I. Pavlichenko and I. V. Ryzhikov. 10, 2977 (1969) [10, 3737 (1968)]

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Effective Magnetic Fields at Fe^{57} and Sn^{119} Nuclei in Ferrite Garnets with High Concentrations of Nonmagnetic Sn^{4+} Ions. (E) I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii. 10, 419 (1968) [10, 534 (1968)]
External Field Amplification Factor and Relaxation Time of Fe^{57} Nuclei during the Observation of Nuclear Magnetic Resonance Signals in Nickel Ferrite. (T/E) L. A. Rassvetalov, S. P. Repnikov, and V. B. Ustinov. 10, 453 (1968) [10, 576 (1968)]
Influence of Temperature on the Magnetic Anisotropy and Zeeman Effect in Erbium Ferrite Garnet. (E) A. I. Belyaeva, V. N. Pavlov, and A. V. Antonov. 10, 537 (1968) [10, 683 (1968)]
Effect of Anisotropy on the Magnetostatic Spectrum of a Ferrite Sphere. (E) A. I. Pil'shchikov and N. S. Sedletskaya. 10, 1035 (1968) [10, 1298 (1968)]
Spin-Wave Instability of a Ferrite Plate with Parametric Excitation by Acoustic Waves. (T) S. P. Repetskii and Yu. A. Tsvirko. 10, 1205 (1968) [10, 1524 (1968)]
Magnetic Properties of Indium-Substituted Cobalt Ferroxplana Ferrite. (E) N. N. Efimova, Yu. A. Mamalui, and A. A. Murakhovskii. 10, 1271 (1968) [10, 1604 (1968)]
Temperature Dependence of the First Magnetocrystalline Anisotropy Constant of Two-Sublattice Ferrimagnets. (E) B. E. Rubinshtein. 10, 1353 (1968) [10, 1715 (1968)]
Angular Dependence of the Induced Magnetic Anisotropy Constant of Fe–Ni–Co Ferrites. (E) N. L. Bryukhatov, N. L. Pakhomova, and V. A. Kozlov. 10, 1477 (1968) [10, 1879 (1968)]
Temperature Dependence of the Spontaneous Radiation of Gadolinium Ferrite. (E) N. I. Lyashenko and L. L. Stakhurskii. 10, 1498 (1968) [10, 1900 (1968)]
Rotation-Time Loss in Polycrystalline Nickel-Iron Ferrites. (E) C. Michalk. 10, 1740 (1969) [10, 2218 (1968)]
Excitation and Amplification of Magnetoelastic Waves. (E/T) K. V. Shevlyagin, S. A. Mironov, A. G. Gurevich, and B. M. Lebed'. 10, 1852 (1969) [10, 2353 (1968)]
The Fine Structure of the Electron-Vibrational Spectrum of Extrinsic Absorption or Emission of Light Due to the Interaction of Electrons with Localized Modes. (T) K. V. Korsak and M. A. Krivoglaz. 10, 1952 (1969) [10, 2488 (1968)]
A Mechanism for the Broadening of the Line Width $2\Delta H$ of Polycrystalline Ferrite Spinels. (E) L. I. Gromova, L. I. Koshkin, and S. A. Fechina. 10, 1965 (1969) [10, 2505 (1968)]
The Magnetic Properties of Copper Ferrite Single Crystals. (E) G. A. Petrakovskii, K. A. Sablina, and É. M. Smokotin. 10, 2005 (1969) [10, 2544 (1968)]
Influence of Chemical Homogeneity upon the Critical Parameters of Certain Nickel–Zinc Ferrites. (E) A. N. Goryaga, N. N. Oleinikov, Yu. D. Tret'yakov, and Shrinivasan Si. 10, 2054 (1969) [10, 2608 (1968)]

Optical Properties Associated with the Conduction Mechanism of Ferrites. (E) A. A. Samokhvalov, N. M. Tutikov, and G. P. Skornyakov. 10, 2172 (1968) [10, 2760 (1968)]
Neutron Diffraction Study of the Hexagonal Ferrite $Ba_2Zn_2Al_{1.5}$ $Fe_{9.5}O_{22}$. (E) N. N. Aganova, V. A. Sizov, and I. I. Yamzin. 10, 2258 (1969) [10, 2859 (1968)]
Ferromagnetic Resonance in Lithium Ferrite-Aluminate Crystals. (E) Yu. M. Yakovlev, É. V. Rubal'skaya, and B. L. Lapovok. 10, 2301 (1969) [10, 2909 (1968)]
Anisotropy of the Paramagnetic Curie Point in Hexagonal Ferrites. (E) K. P. Belov, L. I. Koroleva, and L. P. Mitina. 10, 2329 (1969) [10, 2950 (1968)]
Anisotropy of Magnetization of the Hexagonal Ferrite $BaCo_2TiFe_{16}O_{27}$. (E) T. M. Perekalina, A. D. Shchurova, and V. P. Chepanin. 10, 2460 (1969) [10, 3119 (1968)]
Electrical Conductivity of Ferrites in High Electric Fields at Superhigh Frequency. (E) S. A. Ismailov, A. B. Davydov, and A. A. Samokhvalov. 10, 2505 (1969) [10, 3164 (1968)]
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. (E) G. A. Petrakovskii, I. K. Pukhov, V. N. Seleznev, and A. I. Drokin. 10, 2528 (1969) [10, 3186 (1968)]
Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressures. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]
Nonlinear Effects in a Ferrite for Parallel Pumping. (T) L. V. Kitaev. 10, 2673 (1969) [10, 3385 (1968)]
The Nonlinear Theory of Frequency Conversion in Ferrites. (T/E) B. A. Murmuzhev and V. V. Tarasenko. 10, 2727 (1969) [10, 3443 (1968)]
Nuclear Magnetic Resonance of ^{57}Fe in Local Fields of Ferrite Garnets. (E/T) A. P. Paugurt and M. P. Petrov. 10, 2734 (1969) [10, 3451 (1968)]
Coherent Amplification of Spin Waves in Ferrites. (T) I. A. Gilinskii and K. A. Ryazantsev. 10, 2877 (1969) [10, 3628 (1968)]
Interaction of Magnetic Sublattices in Gadolinium Iron Garnet. (T/E) V. P. Polyakov. 10, 2891 (1969) [10, 3647 (1968)]
The Para-Process near the Curie Point in Polycrystalline Cobalt-Zinc Ferrite. (E/T) S. A. Poltinnikov. 10, 2928 (1969) [10, 3687 (1968)]
The Influence of Exchange Interaction on the Ordering of Holmium Ions in Orthoferrites of the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]

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The Anisotropic Galvanomagnetic Effect in Ferromagnets. (T/E) L. N. Petrova. 10, 8 (1968) [10, 12 (1968)]
Theory of Induced Second-Order Raman Scattering by Spin Waves in an Antiferromagnet. (T) V. M. Genkin, G. M. Genkin, and V. M. Fain. 10, 47 (1968) [10, 66 (1968)]
Parametric Interaction of Ultrasonic and Magnetic Oscillations in a Ferromagnet. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 475 (1968) [10, 605 (1968)]
Magnetoelastic Instability during Uniform Precession in a Ferromagnet. (T) R. G. Khlebopros and V. E. Shapiro. 10, 487 (1968) [10, 620 (1968)]
Some Features of the Mandel'shtam-Brillouin Spin Effect in Ferromagnetic Crystals. (T) F. V. Lisovskii. 10, 500 (1968) [10, 636 (1968)]
Spin Waves in a Medium Having Space-Time Periodicity. (T) N. N. Kiryukhin and F. V. Lisovskii. 10, 556 (1968) [10, 709 (1968)]
The Spin-Wave Spectrum in Antiferromagnets. (T) V. G. Bar'yakhtar and V. A. Popov. 10, 605 (1968) [10, 773 (1968)]
Theory of Nuclear Magnetic Resonance in Ferromagnets. (T) V. G. Bar'yakhtar, S. V. Peletminskii, and É. G. Petrov. 10, 615 (1968) [10, 785 (1968)]
Formation of Spin-Echo Signals under the Combined Action of Local Electric and Magnetic Fields. (T) I. S. Donskaya and A. R. Kessel'. 10, 694 (1968) [10, 885 (1968)]
Quantum Mechanics of a Spin Wave in a Ferromagnet. (T) V. M. Tsukernik. 10, 795 (1968) [10, 1006 (1968)]
The Nonlinear Theory of Ferromagnetic Resonance. (T) L. V. Kitaev and I. G. Fedoseeva. 10, 951 (1968) [10, 1198 (1968)]
Spin Wave Instability in an Antiferromagnet with an "Easy Axis" Type of Anisotropy. (T) Yu. M. Yakovlev. 10, 963 (1968) [10, 1214 (1968)]
The Influence of Ferromagnetic Impurities on the Susceptibility of Gadolinium near the Curie Point. (E) L. A. Boyarskii and M. A. Starikov. 10, 1143 (1968) [10, 1442 (1968)]
Spin-Wave Instability of a Ferrite Plate with Parametric Excitation by Acoustic Waves. (T) S. P. Repetskii and Yu. A. Tsvirko. 10, 1205 (1968) [10, 1524 (1968)]
Excitation of Nonlinear Spin Waves in Ferromagnets and Antiferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 10, 1275 (1968) [10, 1609 (1968)]
Diffraction of Light by Ferromagnetic Domains. (T) V. S. L'vov 10, 1287 (1968) [10, 1627 (1968)]
Temperature Dependence of the Anisotropy Energy in a Ferromagnet. (T) S. A. Pikin. 10, 1368 (1968) [10, 1735 (1968)]
Role of Surface Waves in Spin-Wave Resonance in Films. (T) V. M. Sokolov and B. A. Tavger. 10, 1412 (1968) [10, 1793 (1968)]
Excitation Time of Spin Waves in First- and Second-Order Nonlinear Processes. (E) V. I. Churkin, Yu. R. Shil'nikov, and N. N. Chelishchev. 10, 1474 (1968) [10, 1876 (1968)]
Small Magnetic Polarons in Ferromagnets at Low Temperatures. (T) A. L. Zilichikhis and Yu. P. Irkhin. 10, 1554 (1969) [10, 1974 (1968)]
The Influence of Magnetic Anisotropy on the Paramagnet. (T) V. V. Gann. 10, 1705 (1969) [10, 2177 (1968)]
Planar Effect for Helicon Waves in a Large Ferromagnetic Semiconductor. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 1745 (1969) [10, 2223 (1968)]
Even Photomagnetic Effect in Cuprous Oxide Single Crystals. (E) G. N. Sever. 10, 1824 (1969) [10, 2318 (1968)]
Spin-Wave Instabilities in Isotropic Ferromagnets for Alternating and Constant Magnetic Fields of Arbitrary Orientation. (T/E) Yu. M. Yakovlev. 10, 1911 (1969) [10, 2431 (1968)]
Nature of the High-Coercivity State in Alloys of the Mn–Ga System. (E) Ya. S. Shur, G. S. Kandaurova, and A. V. Deryagin. 10, 1923 (1969) [10, 2449 (1968)]
The Effect of the Magneto-Dipole Interaction on Spin Waves in a Ferromagnet. (T) S. A. Pikin. 10, 2039 (1969) [10, 2587 (1968)]
Spin-Wave Theory of a Ferromagnet with Interstitial Magnetic Impurities. (T) G. R. Augst, A. P. Zhernov, and Kh. M. Pashaev. 10, 2092 (1969) [10, 2658 (1968)]
Magnetic Resonance in the Uniaxial Ferromagnet $RbNiF_3$. (E) E. I. Golovenchits, V. A. Sanina, and A. G. Gurevich. 10, 2334 (1969) [10, 2956 (1968)]
The Resistance Anomaly of Ferromagnetic and Antiferromagnetic Metals near the Magnetic Ordering Point. (T) V. M. Nabutovskii and A. Z. Patashinskii. 10, 2462 (1969) [10, 3121 (1968)]
Theory of Relaxation Processes in Ferromagnets Containing Impurities. (T) E. A. Turov and Yu. N. Skryabin. 10, 2586 (1969) [10, 3271 (1968)]
Coupled Magnetoelastic Waves in Ferromagnetic Substances with Allowance for Hyperfine Interaction. (T) A. I. Timofeev and E. A. Turov. 10, 2625 (1969) [10, 3322 (1968)]
Phenomenological Theory of a Ferroelectric Magnet. (T) V. G. Bar'yakhtar and I. E. Chupis. 10, 2818 (1969) [10, 3547 (1968)]
The Fluctuations and Scattering Processes of Slow Neutrons and Electromagnetic Waves in Ferromagnets Having Small Magnetic Anisotropy. (T) I. A. Akhiezer and D. P. Belozorov. 10, 2835 (1969) [10, 3571 (1968)]
Electromagnetic Excitation of Magnetostatic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 2980 (1969) [10, 3740 (1968)]

FILMS

Influence of Specular Reflection on the Sondheimer Effect. (T) Yu. M. Goland. 10, 58 (1968) [10, 81 (1968)]

Investigation of the Field-Dependent Electron Emission from Porous MgO Films. (E) N. L. Yasnopol'skii and A. É. Shabel'nikova. 10,75 (1968) [10, 103 (1968)]

Dependence of the Forbidden Energy Gap in Cadmium Sulfide Films on Film Thickness. (E/T) A. G. Stasenko. 10, 186 (1968) [10, 248 (1968)]

Theory of Domtain Structure of "Supercritical" Permalloy Films. (T) G. S. Krinchik, E. E. Chepurova, and A. N. Verkhozin. 10, 190 (1968) [10, 253 (1968)]

Mechanism of Dielectric Breakdown in Films. (E) G. A. Vorob'ev. 10, 203 (1968) [10, 266 (1968)]

Directional Crystallization of Cadmium Sulfide by a Long-Range Mechanism Using Cathode Sputtering. (E) Yu. M. Gerasimov, G. I. Distler, V. M. Efremenkova, and V. E. Yurasova. 10, 207 (1968) [10, 270 (1968)]

Diffusion in Silicon Nitride–Aluminum Films. (E) V. Ya. Kovarskii, I. T. Aleksanyan, O. E. Bondarenko, and B. M. Orlov. 10, 209 (1968) [10, 272 (1968)]

Origin of Nonequilibrium Phases in Thin Films. (T) Yu. F. Komnik. 10, 248 (1968) [10, 248 (1968) [10, 312 (1968)]

Anisotropy of Chromium Films Prepared by the Oblique Incidence of a Molecular Beam on a Substrate. (E) V. P. Kostyuk and I. N. Shklyarevskii. 10, 250 (1968) [10, 315 (1968)]

Mechanism of Sputtering of Solids. (E) B. M. Gurmin, T. P. Martynenko, and Yu. A. Ryzhov. 10, 324 (1968) [10, 411 (1968)]

Investigation of the Influence of Proton Bombardment on the Electrical Resistance of Thin Silver Films. (E) V. V. Chechetenko, L. P. Tishchenko, and Ya. M. Fogel'. 10, 502 (1968) [10, 638 (1968)]

Electron Diffraction and Electron Microscope Study of the Structure of Films of Condensed Carbon. (E) B. T. Boĭko, L. S. Palatnik, A. S. Derevyanchenko, and Yu. M. Voronin. 10, 520 (1968) [10, 656 (1968)]

Investigation of the Structure and Work Function of Platinum Films on Tungsten and of Adsorption of Cesium on Such Films. (E) A. G. Naumovets and A. G. Fedorus. 10, 627 (1968) [10, 801 (1968)]

Stresses in Epitaxial Films. (E) V. S. Postnikov, V. M. Ievlev, V. K. Belonogov, and I. V. Zolotukhin. 10, 722 (1968) [10, 917 (1968)]

Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]

Diffusion in Al–Sb_2S_3 Films. (E) V. A. Repin, I. T. Aleksanyan, and A. F. Oborotov. 10, 992 (1968) [10, 1246 (1968)]

Low-Frequency Ferromagnetic Resonance Anharmonicity in a Perpendicularly-Polarized Film. (E) V. E. Shapiro. 10, 1009 (1968) [10, 1265 (1968)]

Changes in the Curvature of a Ferroelectric Film Due to Polarization. (E) É. V. Bursian and O. I. Zaĭkovskii. 10, 1121 (1968) [10, 1413 (1968)]

Temperature Dependence of Electrical Strength of SiO_2 Films. (E) V. F. Korzo. 10, 1256 (1968) [10, 1582 (1968)]

Nuclear Magnetic Resonance in Thin Cobalt Films. (E) V. B. Ustinov, S. P. Repnikov, É. O. Saakov, and V. A. Teryaev. 10, 1264 (1968) [10, 1589 (1968)]

Role of Surface Waves in Spin-Wave Resonance in Films. (T) V. M. Sokolov and B. A. Tavger. 10, 1412 (1968) [10, 1793 (1968)]

Contact Potential Difference of Double-Layer Ba and Au Films on Nb. (E) E. A. Tishin and B. M. Tsarev. 10, 1719 (1969) [10, 2196 (1968)]

A Statistical Treatment of the Movement of Dislocations in Crystals with Pinning Centers. (T/E) É. Yu. Gutmanas and É. M. Nagdornyi. 10, 1805 (1969) [10, 2292 (1968)]

Influence of the Polarization Charges and External Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]

Mechanism of Epitaxial Growth of PbTe on KCl. (E) V. M. Kosgvich, L. S. Palatnik, and V. K. Sorokin. 10, 1936 (1969) [10, 2465 (1968)]

Electrical Conductivity of Silicon Monoxide Thin Films. (E/T) V. Ya. Kunin, V. V. Pogulyaev, and A. N. Tsikin. 10, 2023 (1968) [12, 2564 (1968)]

Structure of Platinum Films on a (110) Face of a Tungsten Crystal. (E) A. G. Naumovets and A. G. Fedorus. 10, 2029 (1969) [10, 2570 (1968)]

Collision of an Atom with a Solid Film. (T) A. S. Dolgov and N. A. Khizhnyak. 10, 2083 (1969) [10, 2647 (1968)]

Investigation of Structure and Electrical Conductivity of Molybdenum and Titanium Thin Films Deposited on NaCl Single Crystals. (E) R. S. Panchishin, Z. V. Stasyuk, and D. M. Freik. 10, 2149 (1969) [10, 2731 (1968)]

Blue Photo- and Electroluminescence of Epitaxial Silicon Carbide Films. (E) V. I. Pavlichenko, I. V. Ryzhikov, Yu. M. Suleimanov, and Yu. M. Shvaĭdak. 10, 2205 (1969) [10, 2801 (1968)]

Preparation and Properties of Thin Films of ZnO. (E) N. L. Kenigsberg and A. N. Chernets. 10, 2235 (1969) [10, 2834 (1968)]

Sputtering of Binary Compounds by Low-Energy Li^+ Ions. (E) T. P. Martynenko. 10, 2274 (1969) [10, 2876 (1968)]

Dependence of the Absorption Edge of Films of Indium Antimonide on Thickness. (E) O. N. Filatov and I. A. Karpovich. 10, 2284 (1969) [10, 2886 (1968)]

Method of Investigating the Oxidation Kinetics of Metals. (E) I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii. 10, 2439 (1969) [10, 3097 (1968)]

Deposition of AlSb Semiconducting Films. (E) L. S. Palatnik and P. N. Bogatov. 10, 2526 (1969) [10, 3184 (1968)]

Effects Associated with a Defect-Enriched Layer near a Boundary or in a Thin Film of a Nonmetallic Crystal. (T) M. A. Krivoglaz. 10, 2645 (1969) [10, 3348 (1968)]

Effect of Charged Defects on the Breakdown of Thin Dielectrics. (E) V. F. Korzo and G. A. Lyashchenko. 10, 2665 (1969) [10, 3374 (1968)]

Temperature Dependence of the Electron Bombardment Effects on the Electronic and Physical Properties of Semiconducting Thin Films. (E/T) L. I. Ivankiv, B. M. Palyukh, and Z. V. Solyanik. 10, 2694 (1969) [10, 3412 (1968)]

Microwave Properties of VC-7 Film Varicons. (E/T) Yu. K. Barsukov and T. N. Verbitskaya. 10, 2711 (1969) [10, 3438 (1968)]

Quantum Photoemission Yield of Cadmium Selenide and Cadmium Sulfide Layers (E/T) V. K. Adamchuk and Yu. A. Serebryakov. 10, 2749 (1969) [10, 3466 (1968)]

Melting of Subcritically Thin Condensed Films of Indium. (E) B. T. Boĭko, A. T. Pugachev, and V. M. Bratsykhin. 10, 2832 (1969) [10, 3567 (1968)]

The Photoelectric Properties of AgBr and Other Silver Halide Films. (E/T) B. U. Barshchevskii. 10, 2930 (1969) [10, 3689 (1968)]

LATTICE MECHANICS

Dynamics of Model Alternating Crystals. (T) Ya. A. Iosilevskii. 10, 24 (1968) [10, 35 (1968)]

Influence of Specular Reflection on the Sondheimer Effect. (T) Yu. M. Goland. 10, 58 (1968) [10, 81 (1968)]

High-Temperature Asymptotes of the Solution to the Ising Problem with Arbitrary Interaction between Particles. (T) V. M. Zadvernyuk and V. Ya. Krivnov. 10, 140 (1968) [10, 188 (1968)]

Quadrupole Relaxation and Chemical Shift in $A^{III}B^{V}$ Crystals. (E) V. L. Bogdanov and V. V. Lemanov. 10, 223 (1968) [10, 286 (1968)]

Dependence of the Isomeric Shift of Sn^{119} Nuclei in SnX_4 Compounds (X = Cl, Br, I, H, Li, Na) on the Atomic Radius of Element X. (E) V. V. Chekin, A. P. Vinnikov, and I. A. Burakhovich. 10, 225 (1968) [10, 288 (1968)]

Effects of Optical Phonons on the Shape of the Wannier-Mott Exciton Absorption Band. (T) S. A. Moskalenko, M. I. Shmigluyk, and B. I. Chinik. 10, 279 (1968) [10, 351 (1968)]

Effect of the Kinematic Interaction on Spin-Phonon Excitations in a Paramagnet. (T) E. M. Iolin. 10, 285 (1968) [10, 359 (1968)]
Low-Frequency Vibrations in the Ferroelectric Crystal Potassium Dihydrogen Phosphate (KDP). (E) A. I. Stekhanov and E. A. Popova. 10, 327 (1968) [10, 415 (1968)]
Anharmonicity of Thermal Vibrations in Metals and Ionic Crystals. (T/E) T. A. Kontorova. 10, 389 (1968) [10, 496 (1968)]
Experimental Determination of the Thermal Vibration Spectrum of White Tin. (E) B. A. Kotov, N. M. Okuneva, and É. L. Plachenova. 10, 402 (1968) [10, 513 (1968)]
Interaction of Electric Dipoles through the Phonon Field. (T) R. V. Saburova. 10, 450 (1968) [10, 572 (1968)]
Paramagnetic Resonance and Spin-Lattice Relaxation of Er^{3+} and Tb^{3+} Ions in the Crystal Lattice of $CaWO_4$. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 468 (1968) [10, 595 (1968)]
Spin-Lattice Relaxation in M_3X Superconducting Compounds with Two Overlapping Energy Bands. (T) I. I. Fal'ko and A. D. Serdyuk. 10, 541 (1968) [10, 688 (1968)]
Spin Waves in a Medium Having Space-Time Periodicity. (T) N. N. Kiryukhin and F. V. Lisovskii. 10, 556 (1968) [10, 709 (1968)]
Interaction between Plasma Oscillations and Phonons. (T) M. A. Mekhtiev. 10, 610 (1968) [10, 779 (1968)]
Dynamics of a Lattice with Two-Dimensional Defects. (T) Ya. A. Iosilevskii. 10, 761 (1968) [10, 961 (1968)]
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Spin-Lattice Relaxation of Trigonal Dy^{3+} Centers and Cubic Yb^{3+} Centers. (E/T) L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin. 10, 843 (1968) [10, 1065 (1968)]
Quantum Oscillations of the Thermomagnetic Coefficients for the Phonon Drag Effect. (T) Yu. M. Gal'perin. 10, 915 (1968) [10, 1152 (1968)]
Equations of Motion of Macroscopic Spin Quantities for Centers with $S = I = 1/2$. (T) V. Ya. Zevin and B. D. Shanina. 10, 930 (1968) [10, 1173 (1968)]
Paramagnetic Resonance and Spin-Lattice Relaxation of Yb^{3+} Ions in PbF_2 Crystals. (E) A. A. Antipin and I. N. Kurkin. 10, 994 (1968) [10, 1248 (1968)]
The Influence of Small Polarons on Lattice Vibrations. (T) V. V. Bryksin and Yu. A. Firsov. 10, 1083 (1968) [10, 1364 (1968)]
Spin-Lattice Relaxation of Ce^{3+} and Yb^{3+} Ions in Single Crystals of $CaWO_4$ and $PbMoO_4$. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 1136 (1968) [10, 1433 (1968)]
The Effect of Quasilocalizable Oscillations on the Spin-Lattice Relaxation of Some Rare-Earth Ions in a CaF_2 Lattice. (T) K. K. Pukhov and V. P. Sakun. 10, 1148 (1968) [10, 1448 (1968)]
Phonon Effects in Dielectrics in an External Electric Field. (T) I. V. Ioffe. 10, 1191 (1968) [10, 1506 (1968)]
Phonon Drag in Antimony. (E) N. A. Red'ko and S. S. Shalyt. 10, 1233 (1968) [10, 1557 (1968)]
Acoustic Excitation of $I = 3/2$ Nuclear Spin-Systems. (T/E) A. M. Sazonov and S. B. Grigor'ev. 10, 1521 (1969) [10, 1927 (1968)]
Dynamics of Simple Lattices with Linear Defects. (T) Ya. A. Iosilevskii. 10, 1991 (1969) [10, 2531 (1968)]
Correlated Chains of Atomic Collisions in [100] Directions in Cubic Face-Centered Crystals. (T) N. S. Dinyaeva, Yu. V. Martynenko, and Yu. A. Ryzhov. 10, 2271 (1969) [10, 2873 (1968)]
Vibrational Spectrum of Crystals Having the Rutile Structure, and Nonanalytic Behavior of the Limiting Dipole Frequencies. (T) M. S. Shur and Yu. N. Tsarev. 10, 2293 (1969) [10, 2899 (1968)]
The Decay of a Volume and Surface Plasmon with the Excitation of an Electron-Hole Pair. (T) V. M. Agranovich and M. A. Mekhtiev. 10, 2304 (1969) [10, 2913 (1968)]
Anharmonic Interactions in a Lattice with Impurities in the Presence of Localized and Quasilocalized Vibrations. (T) A. A. Klochikin and A. V. Subashiev. 10, 2316 (1969) [10, 2932 (1968)]
Concentration Dependence of the Spin-Lattice Relaxation Time in Ruby at Liquid Helium Temperatures. (E) V. A. Milyaev. 10, 2473 (1969) [10, 3132 (1968)]
Temperature Dependence of the High-Frequency Band Width of Crystal and Local Vibrations. (E/T) A. A. Klochikhin, T. I. Maksimova, and A. I. Stekhanov. 10, 2617 (1969) [10, 3312 (1968)]
Effective Fields in Crystals Having the Perovskite, Pyrochlore, and Rutile Structures. (T) S. N. Kolkov and M. N. Rozova. 10, 2661 (1969) [10, 3369 (1968)]
Theory of the Shadow Effect. (T) V. A. Ryabov. 10, 2720 (1969) [10, 3436 (1968)]
Longitudinal Optical Vibrations in the Spectrum of NaCl Single Crystals. (E) A. I. Stekhanov, Yu. F. Markov, and P. L. Smolyanskii. 10, 2744 (1969) [10, 3461 (1968)]
Electrodynamics of a Crystal with Fluctuating Parameters. (T) F. G. Bass, G. A. Beziashvili, and Yu. S. Monin. 10, 2822 (1969) [10, 3553 (1968)]
EPR Spectrum and Spin-Lattice Relaxation in Irradiated Polyethylene. (E) L. Ya. Dzhabakhishvili, G. D. Ketiladze, and T. I. Sanadze. 10, 2954 (1969) [10, 3715 (1968)]

LUMINESCENCE

Luminescence of SiC Single Crystals Bombarded with Electrons, Hydrogen Ions, and Deuterium Ions of Energies up to 20 keV. (E) V. V. Makarov and N. N. Petrov. 10, 154 (1968) [10, 205 (1968)]
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]
Mechanism of Radical Recombination Luminescence of Solids with a Wide Forbidden Band. (E) A. I. Bazhin, V. V. Styrov, and V. A. Sokolov. 10, 712 (1968) [10, 908 (1968)]
Activator-Free Luminescence of Zn(S:Se) Phosphors. (E) S. Asano, K. Omori, and T. Sumimoto. 10, 891 (1968) [10, 1124 (1968)]
Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H). (E) Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko, O. T. Sergeev, and Yu. M. Suleimanov. 10, 905 (1968) [10, 1140 (1968)]
Polarization of Luminescence and Its Dependence on the Frequency of Exciting Light in the Case of Jahn-Teller States of Impurity Ions. (T) B. G. Vekhter and B. S. Tsukerblat. 10, 1250 (1968) [10, 1574 (1968)]
Electroluminescence of Gallium Phosphide near the Forbidden Band. (E) A. N. Pikhtin and D. A. Yas'kov. 10, 1311 (1968) [10, 1660 (1968)]
Density-Matrix Methods in the Theory of Luminescence and Raman Scattering. (T) K. Poiker and E. D. Trifonov. 10, 1346 (1968) [10, 1705 (1968)]
Nature of Infrared Luminescence ($\lambda_m = 1.2\ \mu$) in CdSe Single Crystals and Its Relationship to Photoconductivity. (E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 1394 (1968) [10, 1769 (1968)]
Influence of an Electric Field on Monomolecular and Dimolecular Recombination in Luminescent Ionic Crystals. (E) V. P. Denks and V. I. Leiman. 10, 1426 (1968) [10, 1812 (1968)]
Injection-Chemical Effect and Electroluminescence of Cu_2O. (E) Yu. I. Karkhanin and Yu. V. Vorob'ev. 10, 1479 (1968) [10, 1880 (1968)]
Electroluminescence of Single Crystals of Sodium-Zinc Cermanate in a Constant Electric Field. (E) K. A. Verkhovskaya, I. P. Kuz'mina, A. N. Lobachev, and V. M. Fridkin. 10, 1504 (1968) [10, 1906 (1968)]
An Investigation of Deformation Luminescence. (E/T) S. Z. Shmurak. 10, 1526 (1969) [10, 1934 (1968)]
Luminescence Spectra of MeF_2 Single Crystals Activated by Erbium. (E) I. B. Aizenberg, L. D. Livanova, I. G. Saitkulov, and A. L. Stolov. 10, 1595 (1969) [10, 2030 (1968)]
Emission of Light during Repolarization of Barium Titanate. (E/T) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 1640 (1969) [10, 2094 (1968)]

Effect of a Disperse Nitrogen Impurity on the Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, M. I. Samoilovich, and K. F. Voronzheikin. 10, 1723 (1969) [10, 2200 (1968)]
Amplification of Luminescence in Antiferromagnetic Crystals of MnF_2 and $RbMnF_3$ in a Magnetic Field. (E/T) É. V. Matyushkin and N. N. Rozhitskii. 10, 1736 (1969) [10, 2214 (1968)]
Two-Photon Laser-Induced Luminescence Excitation in Scheelite-Type Crystals and Destructive Processes in Such Crystals. (E) G. M. Zverev and É. K. Maldutis. 10, 2027 (1969) [10, 2568 (1968)]
Mechanisms for Orange, Red, and Infrared Photoluminescence in CdS Single Crystals and Parameters of the Corresponding Luminescence Centers. (T/E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 2069 (1969) [10, 2628 (1968)]
Blue Photo- and Electroluminescence of Epitaxial Silicon Carbide Films. (E) V. I. Pavlichenko, I. V. Ryzhikov, Yu. M. Suleimanov, and Yu. M. Shvaidak. 10, 2205 (1969) [10, 2801 (1968)]
Electroluminescence in n-Type GaAs Crystals and the Acoustoelectric Current Instability. (E) V. N. Smirnov and G. N. Talalakin. 10, 2209 (1969) [10, 2806 (1968)]
Energy Migration and Quenching in Uranyl Salts at Low Temperatures. (E) I. N. Abramova, A. P. Abramov, and N. A. Tolstoi. 10, 2226 (1969) [10, 2824 (1968)]
Luminescence of Beryllium-Doped Silicon Carbide. (E) V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov. 10, 2383 (1969) [10, 3022 (1968)]
Radical-Recombination Luminescence of Boron Nitride. (E) G. A. Lubyanskii, V. V. Styrov, and V. A. Sokolov. 10, 2653 (1969) [10, 3359 (1968)]
Luminescence of Rock Salt in Very Strong Electric Fields. (E) G. A. Vorob'ev and N. S. Nesmelov. 10, 2932 (1969) [10, 3691 (1968)]
The Luminescence of KCl Crystals Containing Quasicolloidal Potassium Centers. (E) A. E. Glauberman, Lai-Kim-t'en, A. B. Gol'denberg, and S. I. Golub. 10, 2995 (1969) [10, 3756 (1968)]

MAGNETIC PROPERTIES

The Anisotropic Galvanomagnetic Effect in Ferromagnets. (T/E) L. N. Petrova. 10, 8 (1968) [10, 12 (1968)]
De Haas-van Alphen Effect in Bi–Sb–Pb Alloys. (E) L. G. Lyubutina. 10, 55 (1968) [10, 77 (1968)]
Propagation Time and Excitation Mechanism of Magnetoelastic Waves in a Nonuniform Field. (T) S. A. Mironov and A. G. Gurevich. 10, 63 (1968) [10, 87 (1968)]
Investigation of the Exciton Quadrupole Transition in Cu_2O in Electric and Magnetic Fields. (E/T) V. T. Agekyan, E. F. Gross, and A. G. Zhilich. 10, 164 (1968) [10, 218 (1968)]
Theory of Domain Structure of "Supercritical" Permalloy Films. (T) G. S. Krinchik, E. E. Chepurova, and A. N. Verkhozin. 10, 190 (1968) [10, 253 (1968)]
Effective Magnetic Fields at Fe^{57} and Sn^{119} Nuclei in Ferrite Garnets with High Concentrations of Nonmagnetic Sn^{4+} Ions. (E) I. S. Lyubutin, E. F. Makarov, and V. A. Povitskii. 10, 419 (1968) [10, 534 (1968)]
Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide. (E) V. M. Stuchebnikov, V. I. Tikhonov, and V. I. Fistul'. 10, 423 (1968) [10, 539 (1968)]
Parametric Interaction of Ultrasonic and Magnetic Oscillations in a Ferromagnet. (E) V. D. Burkov, A. V. Vashkovskii, and V. N. Kil'dishev. 10, 475 (1968) [10, 605 (1968)]
Investigation of the Quadrupole Coupling of I^{127} Nuclei in Tellurium Crystals. (E) K. V. Makaryunas and É. K. Makaryunene. 10, 514 (1968) [10, 650 (1968)]
Hall Effect and Electrical Resistivity of $CrTe_{1-x}Sb_x$ Alloys. (E) N. P. Grazhdankina, L. A. Matyushenko, and Yu. S. Bersenev. 10, 527 (1968) [10, 670 (1968)]
Influence of Temperature on the Magnetic Anisotropy and Zeeman Effect in Erbium Ferrite Garnet. (E) A. I. Belyaeva, V. N. Pavlov, and A. V. Antonov. 10, 537 (1968) [10, 683 (1968)]
Electron-Spin Correlation Function in a Diamagnet Containing Paramagnetic Impurities. (T) M. G. Meĭkiya. 10, 673 (1968) [10, 858 (1968)]
Formation of Spin-Echo Signals under the Combined Action of Local Electric and Magnetic Fields. (T) I. S. Donskaya and A. R. Kessel'. 10, 694 (1968) [10, 885 (1968)]
Investigation of the Magnetic Ordering of $CuFe_2S_2$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskii, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]
Ferromagnetic Resonance in Hexaferrite Single Crystals with an Easy Anisotropy Plane. (E) Yu. M. Yakovlev, Yu. R. Shil'nikov, and N. N. Agapova. 10, 745 (1968) [10, 942 (1968)]
Transformation of Electromagnetic and Ultrasonic Waves in Piezoelectric Crystals. (T) E. M. Ganapol'skii. 10, 777 (1968) [10, 982 (1968)]
Kinetic Properties of Metals in an Electromagnetic Field. (T) V. I. Mandrosov. 10, 810 (1968) [10, 1025 (1968)]
Effect of Domain Structure on Second-Harmonic Generation in Triglycine Sulfate Crystals. (E/T) A. S. Sonin and V. S. Suvorov. 10, 814 (1968) [10, 1031 (1968)]
Magnetic Properties and Crystal Structure of the Solid Solution System $Mg_2SnO_4-MgFe_2O_4$. (E) V. A. Bokov, G. V. Novikov, O. B. Proskuryakov, Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk. 10, 855 (1968) [10, 1080 (1968)]
Oscillations of the Magnetoresistance in HgTe. (E) I. M. Tsidil'kovskii and A. I. Ponomarev. 10, 859 (1968) [10, 1085 (1968)]
Galvanomagnetic Properties of Tellurium at Very Low Temperatures. (E) V. A. Noskin, I. I. Farbshtein, and S. S. Shalyt. 10, 881 (1968) [10, 1112 (1968)]
Excitation of Electromagnetic Waves in a Solid-State Plasma Having a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze and E. P. Fetisov. 10, 911 (1968) [10, 1147 (1968)]
Equations of Motion of Macroscopic Spin Quantities for Centers with $S = I = 1/2$. (T) V. Ya. Zevin and B. D. Shanina. 10, 930 (1968) [10, 1173 (1968)]
The Nonlinear Theory of Ferromagnetic Resonance. (T) L. V. Kitaev and I. G. Fedoseeva. 10, 951 (1968) [10, 1198 (1968)]
Quantum-Statistical Theory of Exchange Narrowing. (T) N. S. Bendiashvili, L. L. Buishvili, and M. D. Zviadadze. 10, 971 (1968) [10, 1224 (1968)]
Temperature Dependence of the Hyperfine Interaction Constants of F Centers in LiF. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 996 (1968) [10, 1250 (1968)]
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]
The Contribution of High-Frequency Optical Transitions to the Faraday Effect in the Antiferromagnetic MnF_2. (E/T) N. F. Kharchenko and V. V. Eremenko. 10, 1112 (1968) [10, 1402 (1968)]
Spin-Lattice Relaxation of Ce^{3+} and Yb^{3+} Ions in Single Crystals of $CaWO_4$ and $PbMoO_4$. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 1136 (1968) [10, 1433 (1968)]
The Influence of Ferromagnetic Impurities on the Susceptibility of Gadolinium near the Curie Point. (E) L. A. Boyarskii and M. A. Starikov. 10, 1143 (1968) [10, 1442 (1968)]
Double Modulation Method of Measuring the Width of a Spin Packet for an Inhomogeneously Broadened EPR Line. (T) V. I. Muromtsev, S. N. Safronov, U. I. Safronova, and I. G. Akhvlediani. 10, 1167 (1968) [10, 1475 (1968)]
Thermal Conductivity of Complex Magnetic Structures Containing Dislocations. (T) V. V. Tarasenko. 10, 1176 (1968) [10, 1486 (1968)]
Damping and Dispersion of Electric and Magnetic Oscillations in a Two-Phase Mixture. (T) S. Ya. Geguzina and M. A. Krivoglaz. 10, 1180 (1968) [10, 1492 (1968)]

Superheating Instability in a Semiconductor Plasma in Crossed Electric and Magnetic Fields. (T) Sh. M. Kogan. 10, 1213 (1968) [10, 1536 (1968)]

Investigation of the Magnetic Properties of $RbNiF_3$ in Strong Pulsed Magnetic Fields. (E) A. T. Starovoitov, V. I. Ozhogin, and V. A. Bokov. 10, 1228 (1968) [10, 1553 (1968)]

Interaction between 90° Domain Walls and Point Defects of the Crystal Lattice in Ferroelectric Ceramics. (T) V. S. Postnikov, V. S. Pavlov, S. A. Gridnev, and S. K. Turkov. 10, 1267 (1968) [10, 1599 (1968)]

Magnetic Properties of Indium-Substituted Cobalt Ferroxplana Ferrite. (E) N. N. Efimova, Yu. A. Mamalui, and A. A. Murakhovskii. 10, 1271 (1968) [10, 1604 (1968)]

Magnetostatic Oscillation Spectrum of an Antiferromagnetic Spheroid with an Easy Axis of Anisotropy. (T) Yu. M. Yakovlev and Yu. N. Burdin. 10, 1284 (1968) [10, 1622 (1968)]

Behavior of Magnetic Moments of Metals in Strong Magnetic Fields. (T) S. Ya. Rakhmanov and M. Ya. Azbel'. 10, 1304 (1968) [10, 1650 (1968)]

Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]

Magnetooptical Rotation in Cubic Crystals Containing Anisotropic Impurity Centers. (E/T) L. A. Alekseeva and P. P. Feofilov. 10, 1397 (1968) [10, 1773 (1968)]

Losses Due to the Excitation and Propagation of Magnetoelastic Waves in a Nonuniform Field. (E/T) S. A. Mironov, A. G. Gurevich, K. V. Shevlyagin, and B. M. Lebed'. 10, 1408 (1968) [10, 1788 (1968)]

Excitation of Field Splashes within Metals Via Electron Trajectory Chains in Surface-Normal Magnetic Fields. (T/E) V. P. Naberezhnykh and N. K. Dan'shin. 10, 1422 (1968) [10, 1807 (1968)]

Angular Dependence of the Induced Magnetic Anisotropy Constant of Fe–Ni–Co Ferrites. (E) N. L. Bryukhatov, N. L. Pakhomova, and V. A. Kozlov. 10, 1477 (1968) [10, 1879 (1968)]

Hall Effect in Chromium. (E) E. B. Amitin and Yu. A. Kovalevskaya. 10, 1483 (1968) [10, 1884 (1968)]

Ground State of an Antiferromagnet in a Magnetic Field of Arbitrary Direction. (T) G. K. Chepurnykh. 10, 1517 (1968) [10, 1917 (1968)]

"Slow Beats" in the Quadrupole Spin Echo. (T/E) N. E. Ainbinder, V. S. Grechishkin, A. D. Gordeev, and A. N. Osipenko. 10, 1592 (1969) [10, 2026 (1968)]

Acoustoelectric Effect in a Magnetic Field. (T) Yu. M. Gal'perin and V. D. Kagan. 10, 1600 (1969) [10, 2037 (1968)]

Effect of the Multipole Moments of Molecules in a Molecular Crystal on the Hyperfine Structure of Trapped Group I Atoms. (T) V. B. Dinershtein. 10, 1624 (1969) [10, 2072 (1968)]

Rotation of Plane of Polarization and Appearance of Ellipticity in Reflection of Ultrasonic Waves from Magnetically Polarized Metals and Ferrodielectrics. (T) K. B. Vlasov and V. G. Kuleev. 10, 1627 (1969) [10, 2076 (1968)]

The Influence of Magnetic Anisotropy on the Parametric Resonance Threshold in a Uniaxial Ferromagnet. (T) V. V. Gann. 10, 1705 (1969) [10, 2177 (1968)]

Coupled Optical Phonons at 1 Magnons and the Interaction of an Electromagnetic Field with an Antiferromagnet. (T) V. M. Genkin and G. M. Genkin. 10, 1712 (1969) [10, 2187 (1968)]

Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]

Hall Effects in Rare-Earth Metals. (T) Sh. Sh. Abel'skii and Yu. P. Irkhin. 10, 1768 (1969) [10, 2245 (1968)]

Magnetic Properties of HgI_2 Single Crystals. (E) L. P. Strakhov, M. P. Shchetinin, and B. A. Kazennov. 10, 1770 (1969) [10, 2248 (1968)]

Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]

Zigzag Domains in Magnetoplumbite Crystals. (E) G. S. Kandaurova. 10, 1818 (1969) [10, 2311 (1968)]

Magnetoelastic Pulses in an Inhomogeneous Magnetic Field. (T) V. G. Bar'yakhtar and V. V. Gann. 10, 1832 (1969) [10, 2327 (1968)]

The Transformation of Magnetic Oscillations into Elastic Waves in Antiferromagnets. (T) V. G. Bar'yakhtar, V. V. Gann, and V. P. Krasnov. 10, 1837 (1969) [10, 2335 (1968)]

Acoustoelectric Effect in Many-Valley Semiconductors and Semimetals in Quantizing Magnetic Fields. (T) Yu. M. Gal'perin. 10, 1840 (1969) [10, 2338 (1968)]

Excitation and Amplification of Magnetoelastic Waves. (E/T) K. V. Shevlyagin, S. A. Mironov, A. G. Gurevich, and B. M. Lebed'. 10, 1852 (1969) [10, 2353 (1968)]

Spin-Wave Instabilities in Isotropic Ferromagnets for Alternating and Constant Magnetic Fields of Arbitrary Orientation. (T/E) Yu. M. Yakovlev. 10, 1911 (1969) [10, 2431 (1968)]

Nature of the High-Coercivity State in Alloys of the Mn–Ga System. (E) Ya. S. Shur, G. S. Kandaurova, and A. V. Deryagin. 10, 1923 (1969) [10, 2449 (1968)]

Fine Structure of the Oscillation Maxima of Magnetoresistance in n-InAs. (E) R. I. Bashirov. 10, 1994 (1969) [10, 2534 (1968)]

The Magnetic Properties of Copper Ferrite Single Crystals. (E) G. A. Petrakovskii, K. A. Sablina, and É. M. Smokotin. 10, 2005 (1969) [10, 2544 (1968)]

Influence of the Exchange Interaction between Nuclear Spins on the Dynamical Polarization of Nuclei. (T) L. L. Buishvili and M. D. Zviadadze. 10, 2015 (1969) [10, 2553 (1968)]

Spin-Wave Theory of a Ferromagnet with Interstitial Magnetic Impurities. (T) G. R. Augst, A. P. Zhernov, and Kh. M. Pashaev. 10, 2092 (1969) [10, 2658 (1968)]

Magnetic Susceptibility of Solid Solutions of Iron Suboxide in Magnesium Oxide. (E/T) S. M. Ariya, B. Ya. Brach, and N. V. Kheifets. 10, 2112 (1969) [10, 2683 (1968)]

Characteristics of the Propagation of Electromagnetic Waves in Gyro-Anisotropic Media. (T) M. I. Kaganov and R. P. Yankelevich. 10, 2181 (1969) [10, 2771 (1968)]

Current Instability in n-Type Germanium in Crossed Electric and Magnetic Fields. (E) L. L. Lyuze, A. V. Zav'yalov, and G. F. Karlova. 10, 2195 (1969) [10, 2790 (1968)]

Change of the Faraday Effect in Yttrium Iron Garnet in a Strong Magnetic Field. (E) N. F. Kharchenko, L. I. Belyi, and O. P. Tutakina. 10, 2221 (1969) [10, 2819 (1968)]

Detection of Shubnikov-de Haas Oscillations in n-Type GaAs. (E) A. V. Matveenko, G. D. Mel'nikov, and R. V. Parfen'ev. 10, 2243 (1969) [10, 2842 (1968)]

Dispersion and Damping of Electromagnetic Waves in Mixed Molecular Crystals. (T) V. I. Sugakov. 10, 2363 (1969) [10, 2995 (1968)]

Hall Effect in Polaron Semiconductors. (T) Yu. A. Firsov. 10, 2387 (1969) [10, 3027 (1968)]

Influence of Dislocations on Electrical Conductivity and Electromagnetic Effects in Metals. (T) É. A. Kaner and É. P. Fel'dman. 10, 2401 (1969) [10, 3046 (1968)]

Quantum Oscillations of the Kinetic and Photoelectric Coefficients on n-Type Bismuth Telluride (Bi_2Te_3). (E) R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman. 10, 2432 (1969) [10, 3087 (1968)]

Magnetic Properties of Mn–Ga Alloy Powders. (E) A. V. Deryagin, G. S. Kandaurova, and Ya. S. Shur. 10, 2454 (1969) [10, 3113 (1968)]

Variational Calculation of the Energy Levels of a Hydrogen-like System in a Magnetic Field. (T) E. P. Pokatilov and M. M. Rusanov. 10, 2458 (1969) [10, 3117 (1968)]

Anisotropy of Magnetization of the Hexagonal Ferrite $BaCo_2Ti_2Fe_{24}O_{41}$. (E) T. M. Perekalina, A. D. Shchurova, and V. P. Chepanin. 10, 2460 (1969) [10, 3119 (1968)]

Strong-Field Domain Parameter Change Times during Small Displacement Field Changes. (T) M. S. Shur. 10, 2479 (1969) [10, 3138 (1968)]

Widths of Coulomb-Center Levels in a Strong Magnetic Field. (T/E) S. D. Beneslavskii. 10, 2503 (1969) [10, 3162 (1968)]

Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressures. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]

Changes in the Spectrum of Magnetoelastic Signals Due to an Adiabatic Application of a Magnetic Field Pulse. (E) V. I. Uchastkin, Yu. A. Taratorin, V. A. Krasil'nikov, and K. V. Gonobarov. 10, 2544 (1969) [10, 3213 (1968)]

Theory of Nuclear Magnetic Resonance Susceptibility of Magnetic Substances. (T) E. A. Turov and M. I. Kurkin. 10, 2551 (1969) [10, 3222 (1968)]

Relation between the Magnetic Dipole and Electric Quadrupole Interactions of the Nuclei in Metallic Aluminum. (E) K. S. Saikin, O. A. Andreeva, Yu. L. Popov, F. I. Bashirov, and R. A. Dautov. 10, 2558 (1969) [10, 3233 (1968)]

Phonon Heating in a Semiconductor in a Strong Electric and a Quantizing Magnetic Field and Its Effect on the Electrical Conductivity. (E) L. É. Gurevich and T. M. Gasymov. 10, 2577 (1969) [10, 3258 (1968)]

Matrix Displacements of the Hyperfine-Structure Constant of Stabilized Manganese Atoms. (T/E) P. G. Baranov and R. A. Zhitnikov. 10, 2592 (1969) [10, 3279 (1968)]

Lifetime of a Spin Wave with Minimal Energy. (T) V. L. Ginzburg and M. I. Kaganov. 10, 2603 (1969) [10, 3293 (1968)]

Behavior of Ferrodielectrics and Antiferromagnets in a Rapidly Oscillating Magnetic Field. (T) A. I. Akhiezer and S. V. Peletminskii. 10, 2609 (1969) [10, 3301 (1968)]

Coupled Magnetoelastic Waves in Ferromagnetic Substances with Allowance for Hyperfine Interaction. (T) A. I. Timofeev and E. A. Turov. 10, 2625 (1969) [10, 3322 (1968)]

Magnetic Moments of Shallow Acceptor Centers in Semiconductors Having Degenerate Bands. (T) E. I. Butikov. 10, 2657 (1969) [10, 3364 (1968)]

The Effect of a Small Transverse Magnetic Field on Helical Waves in Solid-State Plasma. (T) Yu. I. Tsipivka and G. F. Karavaev. 10, 2689 (1969) [10, 3406 (1968)]

The Appearance of a Second Conductivity Zone of GaSb in the Shubnikov-De Haas Effect. (E/T) D. V. Mashovets, R. V. Parfen'ev, and V. S. Vekshina. 10, 2700 (1969) [10, 3417 (1968)]

Magnetostriction of $Zn_2Ba_4Fe_{18}O_{31}$. (E/T) S. P. Kuntsevich, Yu. A. Mamaluĭ, and A. S. Mil'ner. 10, 2780 (1969) [10, 3495 (1968)]

Magnetoelectric Effect and Electromagnetic Waves in Crystals. (T) V. N. Lyubimov and L. Ya. Karpov. 10, 2787 (1969) [10, 3502 (1968)]

Changes in the Spectrum of the Quasi-Harmonic Signal in Ferrodielectrics. (T/E) V. I. Uchastkin. 10, 2789 (1969) [10, 3504 (1968)]

Properties of Coupled Magnetoelastic Waves in Noncentrosymmetric Magnetic Materials. (T) Yu. A. Tsvirko. 10, 2801 (1969) [10, 3526 (1968)]

Electron Paramagnetic Resonance of "Parallel" Chrome Iron Pairs in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskiĭ. 10, 2808 (1969) [10, 3535 (1968)]

Electrodynamics of a Crystal with Fluctuating Parameters. (T) F. G. Bass, G. A. Beriashvili, and Yu. S. Monin. 10, 2822 (1969) [10, 3553 (1968)]

Transverse Acoustoelectric Effect. (E) A. I. Morozov. 10, 2844 (1969) [10, 3584 (1968)]

Influence of Elasticity on Magnetic Phase Transitions. (T) V. L. Pokrovskiĭ. 10, 2852 (1969) [10, 3594 (1968)]

Magnetic Properties of Certain Magnetically-Ordered Fluorides in a Strong-Pulsed Magnetic Field. (E) A. T. Starovoĭtov, V. I. Ozhogin, V. A. Bokov, and P. P. Syrnikov. 10, 2862 (1969) [10, 3608 (1968)]

Coherent Amplification of Spin Waves in Ferrites. (T) I. A. Gilinskiĭ and K. A. Ryazantsev. 10, 2877 (1969) [10, 3628 (1968)]

Interaction of Magnetic Sublattices in Gadolinium Iron Garnet. (T/E) V. P. Polyakov. 10, 2891 (1969) [10, 3647 (1968)]

Hyperfine Interaction in Impurity Centers and Complexes with Degenerate Electronic Terms. (T) I. B. Bersuker and I. Ya. Ogurtsov. 10, 2894 (1969) [10, 3651 (1968)]

The Hall Effect in V_2O_3 Single Crystals in the Metallic Conductivity Region. (E) V. P. Zhuze, A. A. Andreev, and A. I. Shelykh. 10, 2914 (1969) [10, 3674 (1968)]

Quadrupole Splitting of the Mössbauer Level of I^{129} in Iodine Dioxide. (E) Yu. S. Grushko, A. N. Murin, B. G. Lur'e, and A. V. Motornyi. 10, 2944 (1969) [10, 3704 (1968)]

Anisotropy of Magnetic Properties of Zinc Tungstate with Cobalt Admixture. (E/T) A. I. Zvyagin and E. N. Khats'ko. 10, 2970 (1969) [10, 3730 (1968)]

Peculiarities of Magnetoacoustic Resonance in Ferrites. (E) V. D. Burkov, A. V. Vashkovskiĭ, and V. N. Kil'dishev. 10, 2975 (1969) [10, 3735 (1968)]

The Influence of Exchange Interaction on the Ordering of Holmium Ions in Orthoferrites of the $Ho_xSm_{1-x}FeO_3$ System. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, and V. A. Timofeeva. 10, 2997 (1969) [10, 3758 (1968)]

MAGNETIC RESONANCE

Quadrupole Relaxation and Chemical Shift in $A^{III}B^{V}$ Crystals. (E) V. L. Bogdanov and V. V. Lemanov. 10, 223 (1968) [10, 286 (1968)]

Dynamics of EPR, Electron Nuclear Double Resonance (ENDOR), and NMR for Centers Having $S = I = 1/2$. (T) V. L. Hochmann, V. Ya. Zevin, and B. D. Shanina. 10, 269 (1968) [10, 337 (1968)]

Magnetic Resonance of I^{127} Nuclei in NaI Crystals. (E) Yu. A. Grinchenko, E. R. Dobrovinskaya, and V. L. Timan. 10, 341 (1968) [10, 434 (1968)]

Paramagnetic Resonance and Spin-Lattice Relaxation of Er^{3+} and Tb^{3+} Ions in the Crystal Lattice of $CaWO_4$. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 468 (1968) [10, 595 (1968)]

Spin-Lattice Relaxation in M_3X Superconducting Compounds with Two Overlapping Energy Bands. (T) I. I. Fal'ko and A. D. Serdyuk. 10, 541 (1968) [10, 688 (1968)]

Ferromagnetic Resonance in Hexaferrite Single Crystals with an Easy Anisotropy Plane. (E) Yu. M. Yakovlev, Yu. R. Shil'nikov, and N. N. Agapova. 10, 745 (1968) [10, 942 (1968)]

Nonlinear Electric-Field Effects in Paramagnetic Resonance. (T/E) A. B. Roitsin. 10, 751 (1968) [10, 948 (1968)]

Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skiĭ, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]

Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Spin-Lattice Relaxation of Trigonal Dy^{3+} Centers and Cubic Yb^{3+} Centers. (E/T) L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin. 10, 843 (1968) [10, 1065 (1968)]

Quantum-Statistical Theory of the Transverse Overhauser Effect. (T) L. L. Buishvili and N. P. Giorgadze. [10, 1181 (1968)]

Low-Frequency Ferromagnetic Resonance Anharmonicity in a Perpendicularly-Polarized Film. (E) V. E. Shapiro. 10, 1009 (1968) [10, 1265 (1968)]

The Effect of Quasilocalizable Oscillations on the Spin-Lattice Relaxation of Some Rare-Earth Ions in a CaF_2 Lattice. (T) K. K. Pukhov and V. P. Sakun. 10, 1148 (1968) [10, 1448 (1968)]

Phenomenological Theory of Magnetic Resonance in a Magnetoelastic Medium Having Two Sublattices. (T) L. V. Kurbatov and V. K. Guryiev. 10, 1201 (1968) [10, 1519 (1968)]

Anisotropy of the Self-modulation of Nonlinear Ferromagnetic Resonance. (E) I. E. Dikshtein, Ya. A. Monosov, and V. V. Surin. 10, 1506 (1968) [10, 1907 (1968)]

Acoustic Excitation of $I = 3/2$ Nuclear Spin-Systems. (T/E) A. M. Sazonov and S. B. Grigor'ev. 10, 1521 (1969) [10, 1927 (1968)]

"Slow Beats" in the Quadrupole Spin Echo. (T/E) N. E. Ainbinder, V. S. Grechishkin, A. D. Gordeev, and A. N. Osipenko. 10, 1592 (1969) [10, 2026 (1968)]

The Influence of Magnetic Anisotropy on the Parametric Resonance Threshold in a Uniaxial Ferromagnet. (T) V. V. Gann. 10, 1705 (1969) [10, 2177 (1968)]

Magnetic Resonance of Al^{27} Nuclei in the Ferroelectric $CH_3NH_3 \cdot Al(SO_4)_2 \cdot 12H_2O$. (E) I. S. Vinogradova. 10, 1727 (1969) [10, 2204 (1968)]

A Mechanism for the Broadening of the Line Width 2ΔH of Polycrystalline Ferrite Spinels. (E) L. I. Gromova, L. I. Koshkin, and S. A. Fechina. 10, 1965 (1969) [10, 2505 (1968)]
Intrinsic Ferromagnetic Resonance in Powder of Magnetoplumbite. (E) T. P. Velichko and M. A. Sigal. 10, 1987 (1969) [10, 2528 (1968)]
Applicability of the Theory of Inhomogeneous Broadening in the Study of Radicals in the Solid Phase. (E/T) V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, V. N. Sokolov, R. A. Asaturyan, N. I. Nikolaev, Yu. M. Popkov, Kh. G. Khabibov, and N. K. Andreev. 10, 2002 (1969) [10, 2541 (1968)]
Magnetic Resonance of Tm^{169} Nuclei in Single Crystal Thulium Ethylsulfate. (E/T) M. A. Teplov. 10, 2009 (1969) [10, 2548 (1968)]
Ferromagnetic Resonance in Lithium Ferrite-Aluminate Crystals. (E) Yu. M. Yakovlev, É. V. Rubal'skaya, and B. L. Lapovok. 10, 2301 (1969) [10, 2909 (1968)]
Magnetic Resonance in the Uniaxial Ferromagnet $RbNiF_3$. (E) E. I. Golovenchits, V. A. Sanina, and A. G. Gurevich. 10, 2334 (1969) [10, 2956 (1968)]
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]
Electron-Nuclear Double Resonance of A Centers in Mixed KCl + LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]
Molecular Motion in Solid Dioxane and R_3 Complexes. (E) Yu. I. Rozenberg. 10, 2379 (1969) [10, 3017 (1968)]
Instability of Nonlinear Ferromagnetic Resonance. (E) Yu. S. Lifanov, Ya. A. Monosov, and V. V. Surin. 10, 2467 (1969) [10, 3126 (1968)]
Concentration Dependence of the Spin-Lattice Relaxation Time in Ruby at Liquid Helium Temperatures. (E) V. A. Milyaev. 10, 2473 (1969) [10, 3132 (1968)]
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. (E) G. A. Petrakovskii, I. K. Pukhov, V. N. Selezнev, and A. I. Drokin. 10, 2528 (1969) [10, 3186 (1968)]
Quadrupole and Second-Order Effects in the Electron-Nuclear-Double-Resonance Spectra of F-Centers in KCl Due to Interactions with a K^{41} Isotope. (E/T) N. P. Baran, M. F. Deigen, V. Ya. Zevin, and M. A. Ruban. 10, 2640 (1969) [10, 3342 (1968)]
Electron Nuclear Double Resonance of V^{2+} in CaF_2. (E) Yu. F. Mitrofanov, Yu. E. Pol'skii, and M. L. Falin. 10, 2923 (1969) [10, 3682 (1968)]

MECHANICAL PROPERTIES

Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]
Propagation Time and Excitation Mechanism of Magnetoelastic Waves in a Nonuniform Field. (T) S. A. Mironov and A. G. Gurevich. 10, 63 (1968) [10, 87 (1968)]
Range of Wavelengths Causing the Photomechanical Effect. (E) P. P. Kuz'menko, N. N. Novikov, and N. Ya. Gorid'ko. 10, 109 (1968) [10, 148 (1968)]
Formation of Dislocation Structure in Alkali-Halide Crystals during Plastic Deformation. (E) S. N. Komnik. 10, 118 (1968) [10, 159 (1968)]
Stacking Faults in Particles of a Precipitated Phase and Elastic Stresses in the Matrix of Decomposed Aluminum-Germanium Solid Solutions. (E) L. M. Sorokin and G. N. Mosina. 10, 127 (1968) [10, 171 (1968)]
Electric Field Gradients at Atomic Nuclei in Elastically Deformed $A^{III}B^{V}$-Type Crystals. (E/T) V. L. Bogdanov and V. V. Lemanov. 10, 159 (1968) [10, 212 (1968)]
Some Properties of Amplitude-Dependent Internal Friction in Aluminum at High Deformation Amplitudes. (E) V. A. Stepanov and V. A. Chelnokov. 10, 173 (1968) [10, 230 (1968)]
The Correlation of the Electrical and Mechanical Properties of Irradiated Germanium Crystals. (E) V. V. Khainovskaya, F. L. Édel'man, and L. S. Smirnov. 10, 211 (1968) [10, 274 (1968)]
Enthalpy and Specific Heat of Amorphous Isomers. (E) B. I. Pirozhkov and Yu. G. Svetlov. 10, 240 (1968) [10, 303 (1968)]
Thermal Conductivity of Plastically Deformed LiF Crystals. (E) I. A. Smirnov and B. I. Smirnov. 10, 244 (1968) [10, 307 (1968)]
Effect of Pressure on the Electron Effective Mass in Indium Antimonide. (E) E. S. Itskevich and V. A. Sukhoparov. 10, 264 (1968) [10, 327 (1968)]
Coefficient of Thermoemf of Lanthanum Antimonide for Temperatures of 80-500°K. (E) E. V. Goncharova and I. A. Smirnov. 10, 266 (1968) [10, 329 (1968)]
Features of the Macroconcentration of Plastic Deformation in Zinc Single Crystals during Alternating Torsion. (E) F. P. Rybalko, V. G. Zubkov, and R. I. Shevchenko. 10, 308 (1968) [10, 391 (1968)]
Observation of the Bauschinger Effect during Twinning of Calcite Crystals. (E) R. I. Garber and E. I. Stepina. 10, 337 (1968) [10, 429 (1968)]
Relaxation Processes in $BaTiO_3$ Single Crystals Subjected to Unidirectional Mechanical Pressure Pulses. (E) E. V. Sinyakov, S. A. Flerova, and G. V. Barinov. 10, 415 (1968) [10, 529 (1968)]
Young's Modulus of Sapphire Whiskers. (E) S. Z. Bokshtein, G. N. Zaitsev, M. P. Nazarova, and I. L. Svetlov. 10, 443 (1968) [10, 564 (1968)]
Magnetoelastic Instability during Uniform Precession in a Ferromagnet. (T) R. G. Khlebopros and V. E. Shapiro. 10, 487 (1968) [10, 620 (1968)]
Influence of Temperature on the Elastic Constants of a Te Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 10, 507 (1968) [10, 643 (1968)]
Characteristic Features of the Structure of Copper Whiskers Deformed by Torsion. (E) V. S. Postnikov, A. M. Belikov, A. T. Kosilov, S. A. Ammer, and V. I. Koltunov. 10, 516 (1968) [10, 652 (1968)]
Phase Transitions in Group IV-VI Compounds at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 10, 574 (1968) [10, 733 (1968)]
Dependence of the Elastic Properties of Oriented Polymers on the Flexibility of Macromolecules (NMR Results). (E) E. A. Egorov and V. V. Zhizhenkov. 10, 665 (1968) [10, 848 (1968)]
Temperature Dependence of Elastic Constants of Calcium Fluoride. (E) S. P. Nikanorov, B. K. Kardashev, and N. S. Kas'kovich. 10, 703 (1968) [10, 898 (1968)]
Ion-Bombardment Induced Damage in Diamond Layers. (E) V. V. Galkin, M. I. Guseva, V. V. Krasnopevtsev, and Yu. V. Milyutin. 10, 706 (1968) [10, 902 (1968)]
Stresses in Epitaxial Films. (E) V. S. Postnikov, V. M. Ievlev, V. K. Belonogov, and I. V. Zolotukhin. 10, 722 (1968) [10, 917 (1968)]
Internal Friction Due to Stress Relaxation at Twin Boundaries. (E) L. A. Chirkina. 10, 735 (1968) [10, 930 (1968)]
Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]
Influence of Hydrostatic Pressure on the Behavior of Macrodefects in Ionic Crystals. (E) L. M. Polyakov. 10, 822 (1968) [10, 1041 (1968)]
Photodegradation Kinetics of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 866 (1968) [10, 1094 (1968)]
Relaxation of Stresses in Ammonia Single Crystals. (E) A. I. Prokhvatilov and D. N. Bol'shutkin. 10, 966 (1968) [10, 1218 (1968)]
Determination of the Number of Carriers in Pyrolytic Graphite under Pressure. (E) V. V. Kechin, A. I. Likhter, and G. N. Stepanov. 10, 987 (1968) [10, 1242 (1968)]

A New Method for Determining the Dependence of the Carrier Density on Pressure in Semimetals. (T/E) N. B. Brandt, N. Ya. Minina, and Yu. A. Pospelov. 10, 1011 (1968) [10, 1268 (1968)]
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]
Paramagnetic Resonance and Spin Lattice Relaxation of Tb^{3+} Ions in SrF_2 Single Crystals. (T/E) A. A. Antipin, L. D. Livanova, and L. Ya. Shekun. 10, 1025 (1968) [10, 1286 (1968)]
The Effect of γ Irradiation upon the Density of Alkali Halide Crystals. (E) G. A. Andreev and G. Ya. Vasil'ev. 10, 1030 (1968) [10, 1292 (1968)]
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Baikova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]
Dislocation Damping Mechanism in an Ordered Alloy of the AuCu Type. (T) B. A. Grinberg, V. I. Syutkina, and Ė. S. Yakovleva. 10, 1058 (1968) [10, 1330 (1968)]
Investigation of the Ferroelectric Properties of Triglycine Selenate at High Hydrostatic Pressures. (E) I. N. Polandov, V. P. Mylov, B. A. Strukov, and V. M. Varikash. 10, 1092 (1968) [10, 1377 (1968)]
Phenomenological Theory of Magnetic Resonance in a Magnetoelastic Medium Having Two Sublattices. (T) L. V. Kurbatov and V. K. Gurylev. 10, 1201 (1968) [10, 1519 (1968)]
Elastic Moduli of Heavily Doped n-Type Germanium at 300-550°K. (E) V. M. Beilin, Yu. Kh. Vekilov, A. E. Kadyshevich, and O. M. Krasil'nikov. 10, 1226 (1968) [10, 1550 (1968)]
Creep of Crystalline Methane. (E) D. N. Bol'shutkin, L. I. Borisova, and A. V. Leont'eva. 10, 1248 (1968) [10, 1572 (1968)]
Formation of Point Defects by the Plastic Deformation of LiF Crystals. (E) G. A. Andreev and B. I. Smirnov. 10, 1336 (1968) [10, 1693 (1968)]
Secondary Free-Radical Processes Occurring during Mechanical Breakdown of Solid Polymers. (E) V. A. Zakrevskii, V. V. Baptizmanskii, and Ė. E. Tomashevskii. 10, 1341 (1969) [10, 1699 (1968)]
Excitation and Propagation of Longitudinal Elastic Waves with Frequencies from 200 to 2000 MHz in Lithium Niobate Crystals. (E) V. V. Lemanov, A. B. Sherman, G. A. Smolenskii, N. B. Angert, and V. P. Klyuev. 10, 1357 (1968) [10, 1720 (1968)]
Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]
Temperature Dependence of the Photodecomposition of Stressed Polymers. (E) G. G. Samoilov and Ė. E. Tomashevskii. 10, 1363 (1968) [10, 1729 (1968)]
Dislocation Bowing and the Frank-Read Source. (T) G. N. Dubnova, V. L. Indenbom, and A. A. Shtol'berg. 10, 1387 (1968) [10, 1760 (1968)]
Losses Due to the Excitation and Propagation of Magnetoelastic Waves in a Nonuniform Field. (E/T) S. A. Mironov, A. G. Gurevich, K. V. Shevlyagin, and B. M. Lebed'. 10, 1408 (1968) [10, 1788 (1968)]
Structure of Zinc Sulfide Single Crystals Grown from the Melt under Pressure. (E) G. V. Anan'eva, K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1417 (1968) [10, 1800 (1968)]
The Dislocation Structure and Mechanical Properties of Aluminum Antimonide Single Crystals. (E) V. I. Nikitenko, V. N. Vertoprakhov, L. M. Dedukh, and V. P. Zinov'eva. 10, 1435 (1968) [10, 1824 (1968)]
The Possibility of Superfluidity in Semimetals during the Dielectric Transition. (T) Yu. P. Denisov and T. T. Mnatsakanov. 10, 1465 (1968) [10, 1863 (1968)]
Theory of the High-Temperature Background of Internal Friction. (T/E) B. M. Darinskii, S. K. Turkov, and Yu. A. Fedorov. 10, 1469 (1968) [10, 1869 (1968)]
An Investigation of Deformation Luminescence. (E/T) S. Z. Shmurak. 10, 1526 (1969) [10, 1934 (1968)]
Temperature Dependence of Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, Ya. M. Soifer, and M. P. Shaskol'skaya. 10, 1549 (1969) [10, 1968 (1968)]
Internal Friction in CdS Single Crystals. (E) A. A. Blistanov, V. V. Geras'kin, and L. A. Sysoev. 10, 1657 (1969) [10, 2115 (1968)]
Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezuglyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2119 (1968)]
Description of Intercrystallite Thermoelastic Internal Friction Using the Von Karman Correlation Function. (T) T. D. Shermergor and V. G. Baryshnikov. 10, 1709 (1969) [10, 2183 (1968)]
Kinetics of the Electromechanical Effect. (E) S. A. Varchenya, I. P. Spalvin, G. P. Upit, and V. I. Fierov. 10, 1717 (1969) [10, 2194 (1968)]
Pressure Dependence of the Electron Effective Mass in InSb. (E) M. M. Aksel'rod, K. M. Demchuk, I. M. Tsidil'kovskii, E. L. Broide, and K. P. Rodionov. 10, 1733 (1969) [10, 2211 (1968)]
Electron-Microscope Investigation of the Effect of the Load-Application Rate on the Structure of Polycrystalline Nickel. (E) I. A. Gindin, V. P. Lebedev, I. A. Gindin, V. P. Lebedev, I. M. Neklyudov, and I. I. Bobonets. 10, 1738 (1969) [10, 2216 (1968)]
Magnetoelastic Pulses in an Inhomogeneous Magnetic Field. (T) V. G. Bar'yakhtar and V. V. Gann. 10, 1832 (1969) [10, 2327 (1968)]
Investigation of Dislocation Processes during Creep of Deformed NaCl and KCl Single Crystals during Heating. (E/T) Ya. E. Geguzin and V. P. Matsokin. 10, 1869 (1969) [10, 2376 (1968)]
Effect of Donor and Acceptor Impurities on Microhardness of PbTe. (E) M. S. Ablova, M. N. Vinogradova, and M. I. Karkina. 10, 1929 (1969) [10, 2457 (1968)]
Frequency Dependence of Attenuation of Elastic Waves in $Y_3Fe_5O_{12}$ Single Crystals. (E) V. V. Lemanov and A. V. Pavlenko. 10, 1949 (1969) [10, 2484 (1968)]
Twinning and Brittleness of Silicon Iron. (E) I. A. Gindin and L. A. Chirkina. 10, 1989 (1969) [10, 2529 (1968)]
Elastic Properties of a $KMgF_3$ Single Crystal. (E) L. M. Reshchikova. 10, 2019 (1969) [10, 2558 (1968)]
Nonsteady-State Amplitude-Dependent Internal Friction. (T) T. D. Shermergor and M. V. Belov. 10, 2058 (1969) [10, 2612 (1968)]
Molecular Motion in Polyethylene and Polyethyleneterephthalate. (E) G. P. Gordeev and A. I. Shibilev. 10, 2062 (1969) [10, 2618 (1968)]
Revelation of Dislocation Etch Pits in Sodium Chloride Single Crystals Deformed along the Cube Plane. (E) O. V. Klyavin, S. G. Simashko, and A. V. Stepanov. 10, 2102 (1969) [10, 2671 (1968)]
Mechanical Characteristics and the Dislocation Structure of LiF Crystals Deformed by Slip along One System of Crystallographic Planes. (T/E) B. I. Smirnov. 10, 2117 (1969) [10, 2689 (1968)]
Sign Reversal of the Electromechanical Effect. (E) N. N. Novikov and V. A. Makara. 10, 2128 (1969) [10, 2704 (1968)]
Some Peculiarities of the Decomposition of Supersaturated Solid Solutions of Copper in Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Osvenskii, and T. G. Yugova. 10, 2144 (1969) [10, 2724 (1968)]
Amplitude Dependence of Internal Friction in ZnS Single Crystals. (E) L. N. Aleksandrov and M. I. Zotov. 10, 2199 (1969) [10, 2795 (1968)]
Effect of Doping, As Observed in the Measurement of the Microhardness of GaSb and InSb. (E) V. B. Osvenskii, M. G. Mil'vidskii, O. G. Stolyarov, and V. S. Ivleva. 10, 2212 (1969) [10, 2809 (1968)]
The Effect of Impurities upon the Temperature Dependences of the Elastic Constants of Quartz. (E) V. V. Soroka. 10, 2241 (1969) [10, 2840 (1968)]
Temperature Dependence of Yield Point and Dislocation Mobility in KCl(Ba^{2+}) Crystals. (T) S. V. Lubenets and I. G. Novikova. 10, 2256 (1969) [10, 2857 (1968)]

Low-Frequency Damping in Germanium. (E) L. N. Aleksandrov, Yu. N. Golobokov, V. N. Orlov, and F. L. Édel'man. 10, 2269 (1969) [10, 2871 (1968)]
Photomechanical Destruction and Lifetime of Irradiated Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 2395 (1969) [10, 3039 (1968)]
Temperature Dependence of the Elastic Constants of Heavily Doped Gallium Arsenide. (E) V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov. 10, 2443 (1969) [10, 3101 (1968)]
Dependence of Dielectric Properties of SbSI on Temperature and on Hydrostatic Pressure. (E) E. I. Gerzanich and V. M. Fridkin. 10, 2452 (1969) [10, 3111 (1968)]
Dielectric and Elastic Properties of Single Crystals of $BaTiO_3$–$PbTiO_3$ Solid Solutions. (E/T) L. K. Bunina and A. Yu. Kudzin. 10, 2496 (1969) [10, 3156 (1968)]
Quenching Defects and Hardening of Polycrystalline Copper. (E) I. A. Malinenko and O. N. Shivrin. 10, 2507 (1969) [10, 3166 (1968)]
Neutron-Diffraction Investigation of the Spin Ordering in a Hexagonal Y-Type Ferrite under High Hydrostatic Pressures. (E) R. A. Sizov, É. L. Bokhenkov, and V. A. Sizov. 10, 2537 (1969) [10, 3205 (1968)]
Effect of Charged Additions on the Plasticity of Semiconducting $A^{III}B^{V}$ Compounds. (E) V. B. Osvenskii, O. G. Stolyarov, and M. G. Mil'vidskii. 10, 2540 (1969) [10, 3208 (1968)]
Changes in the Spectrum of Magnetoelastic Signals Due to an Adiabatic Application of a Magnetic Field Pulse. (E) V. I. Uchastkin, Yu. A. Taratorin, V. A. Krasil'nikov, and K. V. Goncharov. 10, 2544 (1969) [10, 3213 (1968)]
Coupled Magnetoelastic Waves in Ferromagnetic Substances with Allowance for Hyperfine Interaction. (T) A. I. Timofeev and E. A. Turov. 10, 2625 (1969) [10, 3322 (1968)]
Surmounting of the Elastic Field of Point Defects during the Slip of Dislocations. (T) V. M. Chernov and V. L. Indenbom. 10, 2632 (1969) [10, 3331 (1968)]
Elastic Moduli of CdSb. (E) L. I. Anatychuk, V. D. Iskra, I. M. Rarenko, and B. M. Sharlai. 10, 2702 (1969) [10, 3419 (1968)]
Determination of the Elastic Constants of Gallium by Measurement of X-Ray Diffuse Scattering. (E) V. P. Glagoleva, A. P. Zvyagina, and Fung Van Tkhom. 10, 2764 (1969) [10, 3480 (1968)]
Magnetostriction of $Zn_2Ba_2Fe_{12}O_{22}$. (E/T) S. P. Kuntsevich, Yu. A. Mamalui, and A. S. Mil'ner. 10, 2780 (1969) [10, 3495 (1968)]
Study of the Deformation of Polycrystalline Beryllium during Compression. (E) V. A. Finkel' and I. I. Papirov. 10, 2782 (1969) [10, 3497 (1968)]
Variation of Polymer Elasticity with Deformation and Stress Relaxation. (E) A. P. Rudakov and M. I. Bessonov. 10, 2796 (1969) [10, 3519 (1968)]
Properties of Coupled Magnetoelastic Waves in Noncentrosymmetric Magnetic Materials. (T) Yu. A. Tsvirko. 10, 2801 (1969) [10, 3526 (1968)]
Internal Stress in Crystals of Ultrasonically Strained Lithium Fluoride. (E) É. P. Belozerova, N. A. Tyapunina, and F. A. Kazak. 10, 2812 (1969) [10, 3540 (1968)]
Transverse Acoustoelectric Effect. (E) A. I. Morozov. 10, 2844 (1969) [10, 3584 (1968)]
Influence of Elasticity on Magnetic Phase Transitions. (T) V. L. Pokrovskii. 10, 2852 (1969) [10, 3594 (1968)]
Magnetostriction of Paramagnetic Rare-Earth Gallates and Germanates with a Garnet Structure. (E) K. P. Belov, V. I. Sokolov, and Than Dyk Hien. 10, 2946 (1969) [10, 3706 (1968)]
Electromechanical Effect in Tellurium. (E) G. B. Bagduev and R. M. Idrisova. 10, 2968 (1969) [10, 3729 (1968)]

METALLIC CONDUCTING PROPERTIES

Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]
External Photoelectric Effect in Al Single Crystals. (E) B. Sierocyńska-Wojas. 10, 544 (1968) [10, 693 (1968)]
Magnetoelastic Resonance Properties of Nickel Films at 3 and 8 Gc. (E) E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov. 10, 790 (1968) [10, 1000 (1968)]
Stacking Faults in Tungsten. (E) R. I. Garber, Zh. I. Dranova, and I. M. Mikhailovskii. 10, 799 (1968) [10, 1012 (1968)]
Kinetic Properties of Metals in an Electromagnetic Field. (T) V. I. Mandrosov. 10, 810 (1968) [10, 1025 (1968)]
Multilayer Vacancy Dislocation Rings in Zinc. (E) V. N. Rozhanskii and I. A. Ragimov. 10, 1117 (1968) [10, 1408 (1968)]
Exciton Annihilation at a Metal-Dielectric Interface. (T) V. M. Agranovich, Yu. V. Konobeev, and M. A. Mekhtiev. 10, 1383 (1968) [10, 1754 (1968)]
Excitation of Field Splashes within Metals Via Electron Trajectory Chains in Surface-Normal Magnetic Fields. (T/E) V. P. Naberezhnykh and N. K. Dan'shin. 10, 1422 (1968) [10, 1807 (1968)]
Hall Effect in Chromium. (E) E. B. Amitin and Yu. A. Kovalevskaya. 10, 1483 (1968) [10, 1884 (1968)]
Degree of Ionization of Iron Atoms. (E/T) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 1589 (1969) [10, 2022 (1968)]
Rotation of Plane of Polarization and Appearance of Ellipticity in Reflection of Ultrasonic Waves from Magnetically Polarized Metals and Ferrodielectrics. (T) K. B. Vlasov and V. G. Kuleev. 10, 1627 (1969) [10, 2076 (1968)]
Theory of Electron Deflection by Ultrasonic Currents in Conductors. (T) P. E. Zil'berman. 10, 1635 (1969) [10, 2088 (1968)]
Hall Effects in Rare-Earth Metals. (T) Sh. Sh. Abel'skii and Yu. P. Irkhin. 10, 1768 (1969) [10, 2245 (1968)]
Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]
Study of Surface Self-Diffusion of Tantalum by Field-Emission Microscopy. (E) D. M. Psutov and I. L. Sokol'skaya. 10, 1941 (1969) [10, 2473 (1968)]
Determination of the Energy of Formation of Vacancies in Nickel by the Technique of Quenching in Liquid Helium. II. (E) A. A. Mamalui, T. D. Ositinskaya, V. A. Pervakov, and V. I. Khomkevich. 10, 2290 (1969) [10, 2892 (1968)]
Influence of Dislocations on Electrical Conductivity and Electromagnetic Effects in Metals. (T) É. A. Kaner and É. P. Fel'dman. 10, 2401 (1969) [10, 3046 (1968)]
The Resistance Anomaly of Ferromagnetic and Antiferromagnetic Metals near the Magnetic Ordering Point. (T) V. M. Nabutovskii and A. Z. Patashinskii. 10, 2462 (1969) [10, 3121 (1968)]
Magnetophonon Oscillations of Transverse Magnetoresistance in n-Type Germanium. (E/T) N. G. Gluzman and I. M. Tsidil'kovskii. 10, 2469 (1969) [10, 3128 (1968)]
Relation between the Magnetic Dipole and Electric Quadrupole Interactions of the Nuclei in Metallic Aluminum. (E) K. S. Saikin, O. A. Andreeva, Yu. L. Popov, F. I. Bashirov, and R. A. Dautov. 10, 2558 (1969) [10, 3233 (1968)]
Interaction of Light Quanta with Metals. (T) O. P. Korovin. 10, 2762 (1969) [10, 3479 (1968)]
Electrical Transport and the Sorent Effect in Molybdenum. (E) D. N. Vasil'kovskii and I. V. Zakurdaev. 10, 2886 (1969) [10, 3640 (1968)]
The Hall Effect in V_2O_3 Single Crystals in the Metallic Conductivity Region. (E) V. P. Zhuze, A. A. Andreev, and A. I. Shelykh. 10, 2914 (1969) [10, 3674 (1968)]

METALLURGY AND PHASE TRANSITIONS

Nonadiabatic Transitions of Impurities. (T) V. I. Osherov. 10, 21 (1968) [10, 30 (1968)]
Stacking Faults in Particles of a Precipitated Phase and Elastic Stresses in the Matrix of Decomposed Aluminum-Germanium Solid Solutions. (E) L. M. Sorokin and G. N. Mosina. 10, 127 (1968) [10, 171 (1968)]

Dielectric Properties of $PbZn_{1/3}Nb_{1/3}O_3$, a Ferroelectric with an Indistinct Phase Transition. (E) N. P. Khuchua, V. F. Bova, and I. E. Myl'nikova. 10, 194 (1968) [10, 257 (1968)]

Origin of Nonequilibrium Phases in Thin Films. (T) Yu. F. Komnik. 10, 248 (1968) [10, 312 (1968)]

Role of Phase Fluctuations in Ferroelectric Phase Transitions in Solid Solutions with Perovskite-Type Structure. (T/E) V. Ya. Fritsberg. 10, 304 (1968) [10, 385 (1968)]

Temperature-Induced Changes in the 575 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine-Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]

Light Scattering near a Second-Order Phase Transition in a Dielectric Magnet. (T) V. S. L'vov. 10, 354 (1968) [10, 451 (1968)]

Phase Transitions in Group IV-VI Compounds at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 10, 574 (1968) [10, 733 (1968)]

X-Ray Study of the Phase Transition in Nb_3Sn. (E) S. A. Medvedev, K. V. Kiseleva, and V. V. Mikhailov. 10, 584 (1968) [10, 746 (1968)]

Successive Phase Transitions in the Ferroelectric Crystal $K_4Fe(CN)_6 \cdot 3H_2O$. (E) A. Ya. Krasnikova and V. A. Koptsik. 10, 709 (1968) [10, 905 (1968)]

Neutron Scattering Study of Structure and Phase Transitions in Niobium Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 1076 (1968) [10, 1355 (1968)]

Damping and Dispersion of Electric and Magnetic Oscillations in a Two-Phase Mixture. (T) S. Ya. Geguzina and M. A. Krivoglaz. 10, 1180 (1968) [10, 1492 (1968)]

Nature of Phase Transitions in $PbCd_{0.5}W_{0.5}O_3$. (E) Yu. M. Poplavko, V. G. Tsykalov, V. I. Molchanov, and V. A. Isupov. 10, 1217 (1968) [10, 1542 (1968)]

Investigation of the Reflection Spectra of Vanadium Dioxide Single Crystals at the Semiconductor-Metal Phase Transition. (E) V. G. Mokerov and A. V. Rakov. 10, 1231 (1969) [10, 1556 (1968)]

Theory of Second-Order Phase Transitions of the Displacive Type. (T) Yu. I. Sirotin and L. M. Mikhel'son. 10, 1450 (1968) [10, 1843 (1968)]

The Possibility of Superfluidity in Semimetals during the Dielectric Transition. (T) Yu. P. Denisov and T. T. Mnatsakanov. 10, 1465 (1968) [10, 1863 (1968)]

Shift of the Mössbauer Line of β-Sn during Its Phase Transition under Pressure. (E) V. N. Panyushkin. 10, 1515 (1968) [10, 1915 (1968)]

Phase Transitions in Single-Crystal Sb_2S_3. (E/T) K. A. Verkhovskaya, I. P. Grigas, and V. M. Fridkin. 10, 1583 (1969) [10, 2015 (1968)]

Formation Theory for Three-Dimensional Macroperiodic Lattices Created by a Regularly Segregated New Phase during Decomposition. (T) A. G. Khachaturyan. 10, 1613 (1969) [10, 2056 (1968)]

Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezugliyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2199 (1968)]

Nucleation of a New Phase in Solid Solutions. (T) A. L. Roitburd, A. G. Khachaturyan, and T. S. Plaksina. 10, 1684 (1968) [10, 2149 (1968)]

Application of the Wigner-Seitz Cellular Method for Calculating Electronic Structures and Polymorphic Transitions in Alkali Metals under Pressure. (T) R. G. Arkhipov, E. S. Alekseev, and A. P. Kochkin. 10, 1725 (1969) [10, 2202 (1968)]

Electric Conductivity of the Lanthanum-Cerium System in the Solid and in the Liquid State. (E) F. Gaibullaev, A. R. Regel', and Kh. Khusanov. 10, 1742 (1969) [10, 2220 (1968)]

Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

Phase Transitions in One-Dimensional Systems. (T) I. P. Pavlotskii. 10, 1916 (1969) [10, 2438 (1968)]

Nonadiabatic Transitions in One-Dimensional Periodic Systems. (T) E. S. Medvedev and V. I. Osherov. 10, 1968 (1969) [10, 2509 (1968)]

Influence of an Electric Field on the Ferroelectric Phase Transition in Triglycine Sulfate at High Pressures. (E) G. G. Leonidova and N. P. Netesova. 10, 1985 (1969) [10, 2526 (1968)]

Decomposition of a Solid Solution of Antimony in Heavily-Doped Silicon. (E) V. M. Al'tshuller, L. I. Zhestkova, A. U. Kruchinin, and S. V. Rychkova. 10, 2017 (1969) [10, 2556 (1968)]

Influence of Chemical Homogeneity upon the Critical Parameters of Certain Nickel/Zinc Ferrites. (E) A. N. Goryaga, N. N. Oleinikov, Yu. D. Tret'yakov, and Shrinivasan Sl. 10, 2054 (1969) [10, 2608 (1968)]

A Possible Vacancy Mechanism of Melting. (T) V. I. Vladimirov. 10, 2077 (1969) [10, 2639 (1968)]

Neutron-Diffraction Study of the Structure and Phase Transformations of Tantalum Hydrides and Deuterides. (E) V. A. Somenkov, A. V. Gurskaya, M. G. Zemlyanov, M. E. Kost, N. A. Chernoplekov, and A. A. Chertkov. 10, 2123 (1969) [10, 2697 (1968)]

Some Peculiarities of the Decomposition of Supersaturated Solid Solutions of Copper in Gallium Arsenide. (E) M. G. Mil'vidskii, V. B. Osvenskii, and T. G. Yugova. 10, 2144 (1969) [10, 2724 (1968)]

The Effect of Paramagnetic Impurities on the Critical Field of a Superconductor. (T) S. L. Ginzburg. 10, 2299 (1969) [10, 2906 (1968)]

Effect of Dislocations on the Decomposition of Elements of the Copper Group in Indium Arsenide. (E) B. I. Boltaks and S. I. Rembeza. 10, 2477 (1969) [10, 3136 (1968)]

Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. (E) F. Gaibullaev, M. Mamadaliev, A. R. Regel', and Kh. Khusanov. 10, 2516 (1968) [10, 3174 (1968)]

Phase Transitions in $A_{V}B_{VI}C_{VII}$ Ferroelectric Semiconductors. (E) T. A. Pikka and V. M. Fridkin. 10, 2668 (1969) [10, 3378 (1968)]

Microwave Dielectric Dispersion of the Ferroelectric and Paraelectric Phases of Barium Titanate. (E) Yu. M. Poplavko, V. G. Tsvkalov, and V. I. Molchanov. 10, 2708 (1969) [10, 3425 (1968)]

Estimating the Dimensions of the Kinzig Regions from Data Relating to the Anomalous Part of the Specific Heat of Ferroelectric Phase Transformations. (E) B. N. Rolov. 10, 2725 (1968) [10, 3441 (1968)]

Lattice Model Estimates of the Conditions of Ferroelectric Transition in Perovskite-Type Crystals. (T) G. A. Efremov and S. N. Kolkov. 10, 2732 (1969) [10, 3449 (1968)]

Melting of Suboritically Thin Condensed Films of Indium. (E) B. T. Boiko, A. T. Pugachev, and V. M. Bratsykhin. 10, 2832 (1969) [10, 3567 (1968)]

Transverse Acoustoelectric Effect. (E) A. I. Morozov. 10, 2844 (1969) [10, 3584 (1968)]

Influence of Elasticity on Magnetic Phase Transitions. (T) V. L. Pokrovskii. 10, 2852 (1969) [10, 3594 (1968)]

Estimate of Conditions of Ferroelectric Transition in Crystals Having the SbSI Structure. (T/E) S. N. Kolkov and M. N. Rozov. 10, 2912 (1969) [10, 3672 (1968)]

Types of Electric Induction Waves in Ferroelectric Semiconductors with a First-Order Phase Transition at Temperatures above the Transition Temperature. (T) M. S. Shur. 10, 2925 (1969) [10, 3684 (1968)]

Absorption Spectrum of Vanadium Dioxide below the Semiconductor-Metal Transition Point. (E) D. N. Mirlin. 10, 2938 (1969) [10, 3697 (1968)]

MÖSSBAUER SPECTRA

Investigation of the Magnetic Ordering of $CuFe_2S_2$ by Gamma Resonance (Mössbauer) Spectroscopy. (E) E. F. Makarov, A. S. Marfunin, A. R. Mkrtchyan, V. A. Povitskii, and R. A. Stukan. 10, 717 (1968) [10, 913 (1968)]

Investigation of the Charged States of Iron in Some Cobalt Compounds Using the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 1000 (1968) [10, 1254 (1968)]
Mössbauer Spectrum of N_p^{237} after Alpha Decay of Am^{241} in a Thorium Lattice. (E) B. M. Aleksandov, A. V. Kalyamin, A. S. Krivokhatskii, B. G. Lur'e, A. N. Murin, and Yu. F. Romanov. 10, 1494 (1968) [10, 1896 (1968)]
Shift of the Mössbauer Line of β-Sn during Its Phase Transition under Pressure. (E) V. N. Panyushkin. 10, 1515 (1968) [10, 1915 (1968)]
Investigation of the Valence States of Tin in Tin-Containing Glasses by Means of the Mössbauer Effect. (E) I. P. Polozova and P. P. Seregin. 10, 1996 (1969) [10, 2536 (1968)]
An Investigation of the Charged States of Iron in Cobalt Oxides by the Mössbauer Method. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 10, 2066 (1969) [10, 2624 (1968)]
Reactor-Irradiated Tin Compounds Studied by the Nuclear Gamma Resonance Method. (E) A. N. Murin, B. G. Lur'e, S. I. Bondarevskii, and P. P. Seregin. 10, 2207 (1969) [10, 2803 (1968)]
Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigalis, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]
Calcium Stannate—A Source for Mössbauer Measurements. (E) A. V. Kalyamin, B. G. Lur'e, G. V. Popov, and Yu. F. Romanov. 10, 2522 (1969) [10, 3180 (1968)]
Mössbauer-Effect Study of Reactor Irradiation of Tin Monoxide. (E) S. I. Bondarevskii and P. P. Seregin. 10, 2736 (1969) [10, 3454 (1968)]
Mössbauer Study of States of Iron Atoms at Nickel Grain Boundaries. (E) B. S. Bokshtein, Yu. B. Voitkovskii, A. A. Zhukhovitskii, and G. N. Pautkina. 10, 2940 (1969) [10, 3699 (1968)]
Quadrupole Splitting of the Mössbauer Level of I^{129} in Iodine Dioxide. (E) Yu. S. Grushko, A. N. Murin, B. G. Lur'e, and A. V. Motornyi. 10, 2944 (1969) [10, 3704 (1968)]
The Mössbauer Effect for Fe^{57} and Sn^{119} Impurity Nuclei in Vanadium Pentoxide. (E/T) A. A. Abdullaev, L. M. Belyaev, T. V. Dmitrieva, G. F. Dobrzhanskii, V. V. Ilyukhin, and I. S. Lyubutin. 10, 2957 (1969) [10, 3718 (1968)]

NONCRYSTALLINE STRUCTURE

Silver Atoms Stabilized in Inorganic Glasses. (E) R. A. Zhitnikov and N. I. Mel'nikov. 10, 80 (1968) [10, 108 (1968)]
Investigation of the Band Structure of Amorphous As_2Se_3 by an Ultrasoft X-Ray Spectroscopy Method. (E) V. I. Kruglov and T. M. Zimkina. 10, 170 (1968) [10, 226 (1968)]
Enthalpy and Specific Heat of Amorphous Isomers. (E) B. I. Pirozhkov and Yu. G. Svetlov. 10, 240 (1968) [10, 303 (1968)]
Orientational Changes of Structure in Polyethylene. (E) S. Nizamidinov and A. I. Slutsker. 10, 382 (1968) [10, 487 (1968)]
Investigation of the Density of Layers Separating Crystallites in Oriented Polymers. (E) V. S. Kuksenko and A. I. Slutsker. 10, 657 (1968) [10, 838 (1968)]
Dependence of the Elastic Properties of Oriented Polymers on the Flexibility of Macromolecules (NMR Results). (E) E. A. Egorov and V. V. Zhizhenkov. 10, 665 (1968) [10, 848 (1968)]
Effect of Pumping Pulses on Birefringence of Neodymium Glass. (E) V. A. Gridin and K. G. Folin. 10, 749 (1968) [10, 946 (1968)]
Photodegradation Kinetics of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 866 (1968) [10, 1094 (1968)]
The Effect of Water upon the High-Strength State of Sheet Glass. (E) L. G. Baikova, V. A. Bershtein, F. F. Vitman, L. D. Volovets, G. S. Pugachev, and V. P. Pukh. 10, 1046 (1968) [10, 1315 (1968)]
Secondary Free-Radical Processes Occurring during Mechanical Breakdown of Solid Polymers. (E) V. A. Zakrevskii, V. V. Baptizmanskii, and É. E. Tomashevskii. 10, 1341 (1968) [10, 1699 (1968)]
Temperature Dependence of the Photodecomposition of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 1363 (1968) [10, 1729 (1968)]
Fine Structure of the Spectral Lines of Light Scattered by Silicate Glass. (E) G. I. Gavrilko and D. F. Kiselev. 10, 1747 (1968) [10, 2225 (1968)]
Investigation of the Valence States of Tin in Tin-Containing Glasses by Means of the Mössbauer Effect. (E) I. P. Polozova and P. P. Seregin. 10, 1996 (1969) [10, 2536 (1968)]
Variation of Polymer Elasticity with Deformation and Stress Relaxation. (E) A. P. Rudakov and M. I. Bessonov. 10, 2796 (1969) [10, 3519 (1968)]
Mass-Spectrometer Study of the Kinetics of Cracking in Plastics and the Kinetics of the Growth of Arterial Cracks. (E) O. F. Pozdnyakov and V. R. Regel'. 10, 2905 (1969) [10, 3664 (1968)]

NUCLEAR MAGNETIC RESONANCE AND RELAXATION

The Shape and Width of the Nuclear Magnetic Resonance Signal in the Overhauser Effect. (T) B. F. Alekseev and B. E. Sobotkovskii. 10, 178 (1968) [10, 237 (1968)]
External Field Amplification Factor and Relaxation Time of Fe^{57} Nuclei during the Observation of Nuclear Magnetic Resonance Signals in Nickel Ferrite. (T/E) L. A. Rassvetalov, S. P. Repnikov, and V. B. Ustinov. 10, 453 (1968) [10, 576 (1968)]
Nuclear Magnetic Resonance in Lithium Niobate. (E) V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, L. N. Rashkovich, and N. F. Evlanova. 10, 594 (1968) [10, 759 (1968)]
Nuclear Magnetic Resonance of Na^{23} in Ferroelectric $NaNO_2$. (E) I. S. Vinogradova and A. G. Lundin. 10, 602 (1968) [10, 769 (1968)]
Theory of Nuclear Magnetic Resonance in Ferromagnets. (T) V. G. Bar'yakhtar, S. V. Peletminskii, and É. G. Petrov. 10, 615 (1968) [10, 785 (1968)]
Dependence of the Elastic Properties of Oriented Polymers on the Flexibility of Macromolecules (NMR Results). (E) E. A. Egorov and V. V. Zhizhenkov. 10, 665 (1968) [10, 848 (1968)]
Nuclear Magnetic Resonance in Lithium Niobate Crystals. (E) V. L. Bogdanov, V. V. Lemanov, V. P. Klyuev, and S. A. Fedulov. 10, 886 (1968) [10, 1118 (1968)]
Influence of the Motion of Dislocations on the Ultrasonic Saturation of the NMR Line of Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 979 (1968) [10, 1233 (1968)]
Nuclear Magnetic Resonance Study of Exchange Interactions in $RbNiF_3$. (E/T) G. A. Smolenskii, M. P. Petrov, V. V. Moskalev, V. S. L'vov, V. S. Kasperovich, and E. V. Zhirnova. 10, 1040 (1968) [10, 1305 (1968)]
Nuclear Magnetic Resonance in Thin Cobalt Films. (E) V. B. Ustinov, S. P. Repnikov, É. O. Saakov, and V. A. Teryaev. 10, 1264 (1968) [10, 1589 (1968)]
Effect of NMR Saturation on EPR in the Case of Homogeneous Broadening. (T) L. L. Buishvili and M. D. Zviadadze. 10, 1885 (1969) [10, 2397 (1968)]
Molecular Diffusion and NMR Spectra of Solids. (T) A. G. Lundin and S. P. Gabuda. 10, 1974 (1969) [10, 2516 (1968)]
Acoustic Saturation of Lithium Nuclear Magnetic Resonance in Lithium Niobate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, and N. A. Shamukov. 10, 2239 (1969) [10, 2839 (1968)]
Quadrupole Displacement of the NMR Line in Imperfect Cubic Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 10, 2450 (1969) [10, 3110 (1968)]
Theory of Nuclear Magnetic Resonance Susceptibility of Magnetic Substances. (T) E. A. Turov and M. I. Kurkin. 10, 2551 (1969) [10, 3222 (1968)]
The Effect of Paramagnetic Centers on the NMR Spectra of Polymers Having Conjugated Bonds and Their Complexes. (E) A. I. Maklakov, K. A. Gol'dgammer, V. I. Shepelev, and B. G. Tarasov. 10, 2704 (1969) [10, 3421 (1968)]
Nuclear Magnetic Resonance of ^{57}Fe in Local Fields of Ferrite Garnets. (E/T) A. P. Paugurt and M. P. Petrov. 10, 2734 (1969) [10, 3451 (1968)]
Nuclear Magnetic Resonance in a Ferroelectric Single Crystal of Lithium Tantalate. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov, and V. V. Chkalova. 10, 2784 (1969) [10, 3500 (1968)]

OPTICAL PROPERTIES

Range of Wavelengths Causing the Photomechanical Effect. (E) P. P. Kuz'menko, N. N. Novikov, and N. Ya. Gorid'ko. 10, 109 (1968) [10, 148 (1968)]

Photochemical Reactions in Colored CsBr Crystals. (E) V. V. Udod. 10, 136 (1968) [10, 183 (1968)]

A Dynamic Study of the Quadratic Electrooptical Effect in Barium Titanate. (E) A. A. Arabidze and V. P. Kokoeva. 10, 151 (1968) [10, 202 (1968)]

Dependence of the Isomeric Shift of Sn^{119} Nuclei in SnX_4 Compounds (X = Cl, Br, I, H, Li, Na) on the Atomic Radius of Element X. (E) V. V. Chekin, A. P. Vinnikov, and I. A. Burakhovich. 10, 225 (1968) [10, 288 (1968)]

Electrooptical Properties of Potassium-Sodium Niobate Single Crystals. (E) A. S. Sonin and P. A. Apkar'yants. 10, 234 (1968) [10, 296 (1968)]

Nonlinear Optical Properties of a Solid-State Plasma in an Electric Field. (T) V. N. Alyamovskii. 10, 238 (1968) [10, 301 (1968)]

Electrooptic Effect in Strontium Titanate Crystals. (E) A. S. Sonin and V. É. Perfilova. 10, 242 (1968) [10, 305 (1968)]

Observation of the Bauschinger Effect during Twinning of Calcite Crystals. (E) R. I. Garber and E. I. Stepina. 10, 337 (1968) [10, 429 (1968)]

Light Scattering near a Second-Order Phase Transition in a Dielectric Magnet. (T) V. S. L'vov. 10, 354 (1968) [10, 451 (1968)]

Electrooptical Effect in $PbMg_{1/3}Nb_{2/3}O_3$ Crystals. (E) G. A. Smolenskii, N. N. Krainik, A. A. Berezhnoi, and I. E. Myl'nikova. 10, 365 (1968) [10, 467 (1968)]

Anisotropy of Two-Photon Absorption in Optical Excitation of CdSe Semiconductor Lasers. (E/T) A. Z. Grasyuk, I. G. Zubarev, and A. N. Mentser. 10, 427 (1968) [10, 543 (1968)]

Scattering of Light by Charged Centers in Semiconductors. (T) A. A. Grinberg and N. I. Kramer. 10, 458 (1968) [10, 582 (1968)]

Anisotropic Electrooptic Effects in Semiconductors. (T) A. G. Aronov and G. E. Pikus. 10, 648 (1968) [10, 825 (1968)]

A New Crystal with a Large Electrooptical Effect. (E) A. S. Vasilevskaya, L. I. Kuznetsova, I. S. Rez, and A. S. Sonin. 10, 733 (1968) [10, 928 (1968)]

Electrooptic Effect in the Ionic Model of a Barium Titanate Single Crystal. (T/E) L. B. Meisner. 10, 741 (1968) [10, 938 (1968)]

Effect of Pumping Pulses on Birefringence of Neodymium Glass. (E) V. A. Gridin and K. G. Folin. 10, 749 (1968) [10, 946 (1968)]

Photoeffect Due to Generation of Excitons in Semiconductors. (E) I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova. 10, 770 (1968) [10, 974 (1968)]

Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]

Some Aspects of the Laser Mechanism in $CaF_2:Dy^{2+}$ Crystals. (E) E. M. Zolotov, A. M. Prokhorov, and G. P. Shipulo. 10, 848 (1968) [10, 1071 (1968)]

Photodegradation Kinetics of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 866 (1968) [10, 1094 (1968)]

Double Refraction and Dichroism of UHF Waves Due to Hot Electrons in n-Ge and n-Si. (E/T) A. B. Davydov and R. V. Pomortsev. 10, 870 (1968) [10, 1098 (1968)]

Exciton Absorption Profile of Gallium Phosphide. (T/E) V. K. Subashiev and G. A. Chalikyan. 10, 1067 (1968) [10, 1343 (1968)]

The Contribution of High-Frequency Optical Transitions to the Faraday Effect in the Antiferromagnetic MnF_2. (E/T) N. F. Kharchenko and V. V. Eremenko. 10, 1112 (1968) [10, 1402 (1968)]

Photodielectric Effect in SbSI Single Crystals. (E) A. Yu. Kudzin, A. N. Sukhinskii, and R. V. Oginov. 10, 1252 (1968) [10, 1577 (1968)]

Diffraction of Light by Ferromagnetic Domains. (T) V. S. L'vov. 10, 1287 (1968) [10, 1627 (1968)]

Two-Photon Absorption Mechanism in $CaF_2:Ho^{3+}$ Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1968) [10, 1645 (1968)]

Temperature Dependence of the Photodecomposition of Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 1363 (1968) [10, 1729 (1968)]

Nature of Infrared Luminescence (λ_m = 1.2 μ) in CdSe Single Crystals and Its Relationship to Photoconductivity. (E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 1394 (1968) [10, 1769 (1968)]

Magnetooptical Rotation in Cubic Crystals Containing Anisotropic Impurity Centers. (T/E) L. A. Alekseeva and P. P. Feofilov. 10, 1397 (1968) [10, 1773 (1968)]

Optical Detection and Piezoelectric Effect in Some Electrooptical Crystals. (E) B. N. Morozov and V. M. Nesterenko. 10, 1442 (1968) [10, 1833 (1968)]

Generation of the Second Harmonic of Ruby Laser Radiation in Some Crystals. (E) A. S. Sonin, A. A. Filimonov, and V. S. Suvorov. 10, 1481 (1968) [10, 1883 (1968)]

Connection between the Cross Section of Light Scattering by Light and the Nonlinear Polarizability of Crystals. (T) A. A. Grinberg and N. I. Kramer. 10, 1573 (1969) [10, 2002 (1968)]

Moiré Patterns Due to Misfit Dislocations in Double-Layer Films of Gold and a Gold-Copper Alloy. (E/T) V. M. Kosevich, L. S. Palatnik, and L. E. Chernyakova. 10, 1644 (1969) [10, 2099 (1968)]

The Temperature Dependence of Optical Absorption in the Antiferromagnet $KNiF_3$. (E/T) R. V. Pisarev and S. D. Prokhorova. 10, 1668 (1969) [10, 2129 (1968)]

Cotton-Mouton Effect and Magnetic Structure of $RbFeF_3$. (E) I. G. Sinii, R. V. Pisarev, P. P. Syrnikov, G. A. Smolenskii, and A. I. Kapustin. 10, 1775 (1969) [10, 2252 (1968)]

Structure and Optical Properties of Gallium Layers Precipitated in Vacuum. (E) I. Yu. Rapp, I. N. Shklyarevskii, and R. G. Yarovaya. 10, 1780 (1969) [10, 2257 (1968)]

Infrared Reflectivity Spectra and Optical Constants of $ZnSnP_2$ Crystals in the Chalcopyrite and Sphalerite Structures. (E) N. A. Goryunova, L. B. Zlatkin, Yu. F. Markov, A. I. Stekhanov, and M. S. Shur. 10, 1782 (1969) [10, 2260 (1968)]

Attenuation of Light by Colloids in Mixed Alkali Halide Crystals. (E/T) I. S. Radchenko and V. V. Udod. 10, 1827 (1969) [10, 2321 (1968)]

Breakdown in Alkali-Halide Crystals Caused by Laser Radiation. (E) N. I. Alekseev, N. V. Volkova, V. A. Likhachev, and L. M. Shestopalov. 10, 1890 (1969) [10, 2403 (1968)]

Two-Photon Laser-Induced Luminescence Excitation in Scheelite-Type Crystals and Destructive Processes in Such Crystals. (E) G. M. Zverev and É. K. Maldutis. 10, 2027 (1969) [10, 2568 (1968)]

Mechanisms for Orange, Red, and Infrared Photoluminescence in CdS Single Crystals and Parameters of the Corresponding Luminescence Centers. (T/E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 2069 (1969) [10, 2628 (1968)]

Electrooptical Properties of the Ferroelectric Crystals $PbZn_{1/3}Nb_{1/3}O_3$, $PbMg_{1/3}Ta_{1/3}O_3$, and $PbNi_{1/3}Nb_{1/3}O_3$. (E) G. A. Smolenskii, N. N. Krainik, A. A. Bereshnoi, and I. E. Myl'nikova. 10, 2105 (1969) [10, 2675 (1968)]

Optical Homogeneity of Ruby Crystals and Its Relation to the Radiation Divergence of Lasers. (E) Yu. K. Danileiko, A. A. Manenkov, A. M. Prokhorov, and V. Ya. Khaimov-Mal'kov. 10, 2154 (1969) [10, 2738 (1968)]

Radiative Growth of Depleted Zones and Their Transformation into Dislocative Loops or Pores. (T) É. Ya. Mikhlin. 10, 2160 (1969) [10, 2745 (1968)]

Optical Properties Associated with the Conduction Mechanism of Ferrites. (E) A. A. Samokhvalov, N. M. Tutikov, and G. P. Skornyakov. 10, 2172 (1969) [10, 2760 (1968)]

Some Absorption Properties of Colored Alkali-Halide Crystals Containing Impurities. (E) A. E. Glauberman, Lai Kim-T'en, A. B. Gol'denberg, and S. I. Golub. 10, 2218 (1969) [10, 2816 (1968)]

Change of the Faraday Effect in Yttrium Iron Garnet in a Strong Magnetic Field. (E) N. F. Kharchenko, L. I. Belyi, and O. P. Tutakina. 10, 2221 (1969) [10, 2819 (1968)]

Depolarization of Light Scattered at Small Angles by Synthetic Ruby Crystals. (E/T) L. E. Ageeva. 10, 2237 (1969) [10, 2836 (1968)]

Raman Scattering of Hypersound in Ferromagnets with High Magnetostriction. (T) I. A. Akhiezer and L. N. Davydov. 10, 2288 (1969) [10, 2890 (1968)]

Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. (T) V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich. 10, 2309 (1969) [10, 2920 (1968)]

Electron-Nuclear Double Resonance of A Centers in Mixed KCl + LiCl Crystals. (E) N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod. 10, 2370 (1969) [10, 3005 (1968)]

Molecular Motion in Solid Dioxane and Its Complexes. (E) Yu. I. Rozenberg. 10, 2379 (1969) [10, 3017 (1968)]

Photomechanical Destruction and Lifetime of Irradiated Stressed Polymers. (E) G. G. Samoilov and É. E. Tomashevskii. 10, 2395 (1969) [10, 3039 (1968)]

Nature of the Central Spot on H_V Diffraction Patterns of Spherulites. (T) Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'. 10, 2471 (1969) [10, 3130 (1968)]

Possibility of Using Alkali-Halide Crystals for the Amplification of Light. (E) A. Ya. Goikhman and Yu. M. Popov. 10, 2489 (1969) [10, 3148 (1968)]

Change in the Refractive Index of Ruby Due to Population Inversion. (E) N. A. Anisimov and G. L. Kononchuk. 10, 2491 (1969) [10, 3150 (1968)]

Optical Dichroism of Absorption Bands and Structure of Certain Hole Centers in MeF_2–RE Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 10, 2563 (1969) [10, 3239 (1968)]

Microwave Properties of VC-7 Film Varicons. (E/T) Yu. K. Barsukov and T. N. Verbitskaya. 10, 2711 (1969) [10, 3428 (1968)]

Theory of the Shadow Effect. (T) V. A. Ryabov. 10, 2720 (1969) [10, 3436 (1968)]

Thermo- and Photochemical Reactions in Colored NaBr Crystals. (E) V. V. Udod. 10, 2741 (1969) [10, 3458 (1968)]

Quantum Photoemission Yield of Cadmium Selenide and Cadmium Sulfide Layers. (E/T) V. K. Adamchuk and Yu. A. Serebryakov. 10, 2749 (1969) [10, 3466 (1968)]

Scattering of Light by Spin-Ordering Fluctuations Close to the Néel Point in Antiferromagnetic $KNiF_3$. (E) Z. M. Khashkhozhev, R. V. Pisarev, and G. A. Smolenskii. 10, 2772 (1969) [10, 3487 (1968)]

Interaction of Light Quanta with Metals. (T) O. P. Korovin. 10, 2762 (1969) [10, 3479 (1968)]

Influence of an Acoustic Wave on the Optical Properties of Crystals. (T) V. G. Kamenskii and V. L. Pokrovskii. 10, 2841 (1969) [10, 3579 (1968)]

Gamma-Optical Transitions Stimulated by a Laser. (T/E) A. V. Mitin. 10, 2880 (1969) [10, 3632 (1968)]

Decomposition of Several Alkali-Halide Crystals by Laser Radiation and Evaluation of Their Optical Stability. (E) L. M. Belyaev, A. N. Golovistikov, and V. V. Nabatov. 10, 2972 (1969) [10, 3733 (1968)]

Microwave Absorption by Free Carriers in Barium Titanate. (E) V. V. Bogatko, G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 2986 (1969) [10, 3746 (1968)]

Laser Radiation Induced Breakdown Processes in Polymers at the Load Limit. (E) N. P. Novikov, S. S. Saluen'ya, F. N. Chernyavskii, and Yu. I. Yudin. 10, 2990 (1969) [10, 3751 (1968)]

OPTICAL SPECTRA

Theory of Induced Second-Order Raman Scattering by Spin Waves in an Antiferromagnet. (T) V. M. Genkin, G. M. Genkin, and V. M. Fain. 10, 47 (1968) [10, 66 (1968)]

Reflection Spectra of Rochelle Salt Crystals in the Vacuum Ultraviolet Range. (E) V. N. Vishnevskii, L. N. Kulik, and N. A. Romanyuk. 10, 217 (1968) [10, 280 (1968)]

Optical Spectra of Ni^{2+} Ions in CaF_2 and CdF_2. (E/T) E. I. Zoroastskaya, B. Z. Malkin, A. L. Stolov, and Zh. S. Yakovleva. 10, 255 (1968) [10, 320 (1968)]

Spectrum of Gd^{3+} Impurity Centers in PbF_2 Single Crystals. (E) F. Z. Gil'fanov, M. M. Zaripov, L. D. Livanova, A. L. Stolov, and V. G. Stepanov. 10, 260 (1968) [10, 324 (1968)]

Absorption Spectra of Exciton-Impurity Complexes in Silicon Carbide. (E) I. S. Gorban', A. P. Krokhmal', and S. N. Rud'ko. 10, 312 (1968) [10, 396 (1968)]

Temperature-Induced Changes in the 575 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine-Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]

Franz-Keldysh Effect in Gallium Phosphide. (E) G. A. Chalikyan, V. K. Subashiev, and P. Kishan. 10, 348 (1968) [10, 442 (1968)]

Calculation of Line Width for Raman Scattering of Light by a Monomolecular Chain. (T) L. G. Zhidkov. 10, 464 (1968) [10, 590 (1968)]

Kβ X-Ray Spectra of Fe in Iron Oxides. (E) K. M. Kolobova, S. A. Nemnonov, and E. V. Agapova. 10, 571 (1968) [10, 729 (1968)]

X-Ray Study of the Phase Transition in Nb_3Sn. (E) S. A. Medvedev, K. V. Kiseleva, and V. V. Mikhailov. 10, 584 (1968) [10, 746 (1968)]

Investigation of the Energy Structure of Al_2O_3 and AlN by Ultrasoft X-Ray Spectroscopy. (E) V. A. Fomichev. 10, 597 (1968) [10, 763 (1968)]

X-Ray Spectroscopic Study of Titanium Monoxide in the Homogeneous Region and of Titanium Nitride. (E) I. A. Brytov, M. A. Rumsh, and A. S. Parobets. 10, 621 (1968) [10, 794 (1968)]

Temperature Dependence of the Fundamental Absorption Edge in Triglycine Sulfate. (E) L. M. Guseva and A. S. Sonin. 10, 730 (1968) [10, 925 (1968)]

Spectrum of Exciton Complexes in Hexagonal ZnS Crystals. (E) E. F. Gross, L. G. Suslina, and E. B. Shadrin. 10, 818 (1968) [10, 1036 (1968)]

The Optical Absorption by F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 10, 947 (1968) [10, 1193 (1968)]

Nonlinear Absorption in CdSe. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 10, 981 (1968) [10, 1235 (1968)]

Reflection of Nickel in the Ultraviolet Region at Temperatures below and above the Curie Point. (E) R. G. Yarovaya and L. I. Timchenko. 10, 983 (1968) [10, 1237 (1968)]

Exciton Absorption Profile of Gallium Phosphide. (T/E) V. K. Subashiev and G. A. Chalikyan. 10, 1067 (1968) [10, 1343 (1968)]

Investigation of the Energy Structure of Silicon Carbide and Silicon Nitride by Ultrasoft X-Ray Spectroscopy. (E) I. I. Zhukova, V. A. Fomichev, A. S. Vinogradov, and T. M. Zimkina. 10, 1097 (1968) [10, 1383 (1968)]

Ultrasoft X-Ray Spectrum of Iodine in KI. (E) T. M. Zimkina and V. A. Fomichev. 10, 1104 (1968) [10, 1392 (1968)]

Influence of Temperature on the Optical Spectra of Centers in Fluorite-Type Single Crystals Activated with Co^{2+} and Ni^{2+} Ions. (E) A. L. Stolov and Zh. S. Yakovleva. 10, 1196 (1968) [10, 1513 (1968)]

Investigation of the Reflection Spectra of Vanadium Dioxide Single Crystals at the Semiconductor–Metal Phase Transition. (E) V. G. Mokerov and A. V. Rakov. 10, 1231 (1968) [10, 1556 (1968)]

Interpretation of X-Ray Spectra. (T) V. G. Aleshin, V. P. Smirnov, and M. S. Nakhmanson. 10, 1260 (1968) [10, 1585 (1968)]

Two-Photon Absorption Mechanism in $CaF_2:Ho^{3+}$ Crystals. (E) B. V. Ershov, Yu. P. Pimenov, A. M. Prokhorov, and V. B. Fedorov. 10, 1300 (1968) [10, 1645 (1968)]

Density-Matrix Methods in the Theory of Luminescence and Raman Scattering. (T) K. Polker and E. D. Trifonov. 10, 1346 (1968) [10, 1705 (1968)]

Polarization Effect on Exciton Absorption Lines. (T) A. G. Zhilich. 10, 1375 (1968) [10, 1746 (1968)]

Temperature Broadening, Shifts, and Line Shapes in the Quasi-linear Spectra of Organic Molecules in n-Paraffin Solid Solutions. (E) R. I. Personov and V. V. Solodunov. 10, 1454 (1968) [10, 1848 (1968)]

Temperature Dependence of the Spontaneous Radiation of Gadolinium Ferrite. (E) N. I. Lyashenko and L. L. Stakhurskii. 10, 1498 (1968) [10, 1900 (1968)]

Cross Sections for the Raman Scattering of Light in GaP and CdS Crystals. (E) V. S. Ryazanov, V. S. Gorelik, G. V. Peregudov, M. M. Sushchinskii, and V. A. Chirkov. 10, 1508 (1968) [10, 1909 (1968)]

Photoconductivity Spectrum of Diamond. (E) K. N. Pogodaev and V. S. Tatarinov. 10, 1510 (1968) [10, 1911 (1968)]

Optical Transitions to Degenerate Localized Levels. (T) Yu. E. Perlin. 10, 1531 (1969) [10, 1941 (1968)]

Form of the Absorption Curve for Interaction of Light with Small Polarons. (T) Yu. A. Firsov. 10, 1537 (1969) [10, 1950 (1968)]

Induced Raman Scattering in Calcite. (T/E) B. M. Ataev and V. N. Lugovoi. 10, 1566 (1969) [10, 1991 (1968)]

Theory of Raman Scattering in Semiconductors with Plasmons Coupled to Longitudinal Optical Phonons. (T) G. M. Genkin and V. V. Zil'berberg. 10, 1578 (1969) [10, 2008 (1968)]

Effect of the Multipole Moments of Molecules in a Molecular Crystal on the Hyperfine Structure of Trapped Group I Atoms. (T) V. B. Dinershtein. 10, 1624 (1969) [10, 2072 (1968)]

The Temperature Dependence of Optical Absorption in the Antiferromagnet $KNiF_3$. (E/T) R. V. Pisarev and S. D. Prokhorova. 10, 1668 (1969) [10, 2129 (1968)]

Interaction between Er^{3+} Impurity Centers in CaF_2 and CdF_2 Crystals. (E/T) I. G. Saitkulov and A. L. Stolov. 10, 1694 (1969) [10, 2163 (1968)]

Fine Structure of the Spectral Lines of Light Scattered by Silicate Glass. (E) G. I. Gavrilko and D. F. Kiselev. 10, 1747 (1969) [10, 2225 (1968)]

Optical Absorption in LaSb. (E) E. V. Goncharova, V. P. Zhuze, and D. P. Lukirskii. 10, 1784 (1969) [10, 2262 (1968)]

Optical Dichroism of Absorption Bands and Structure of Certain Hole Centers in MeF_2–RE Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 10, 2563 (1969) [10, 3239 (1968)]

Matrix Displacements of the Hyperfine-Structure Constant of Stabilized Manganese Atoms. (T/E) P. G. Baranov and R. A. Zhitnikov. 10, 2592 (1969) [10, 3279 (1968)]

Determination of Certain Dynamic Characteristics of Cubic and Orthorhombic $MClO_4$-Type Crystal Lattices from Data on Infrared Spectra. (E/T) E. K. Galanov and I. A. Brodskii. 10, 2678 (1969) [10, 3392 (1968)]

Longitudinal Optical Vibrations in the Spectrum of NaCl Single Crystals. (E) A. I. Stekhanov, Yu. F. Makov, and P. L. Smolyanskii. 10, 2744 (1969) [10, 3461 (1968)]

Concentration-Dependent Line-Shift in Optical Spectra of Ruby. (T/E) A. A. Kaplyanskii, A. K. Przhevuskii, and R. B. Rozenbaum. 10, 1864 (1969) [10, 2370 (1968)]

X-Ray Emission Spectra and the Complex Hole-Band Structure in Crystals Having the Sphalerite and Diamond Structures. (T) V. G. Lyapin and K. B. Tolpygo. 10, 1879 (1969) [10, 2390 (1968)]

Effect of Bonding Character on the Spectra of Co^{2+} and Ni^{2+} Ions in ZnS Crystals Containing Stacking Faults. (E) S. A. Kazanskii, A. I. Ryskin, and G. I. Khil'ko. 10, 1899 (1969) [10, 2415 (1968)]

Frequency Dependence of Attenuation of Elastic Waves in $Y_3Fe_5O_{12}$ Single Crystals. (E) V. V. Lemanov and A. V. Pavlenko. 10, 1949 (1969) [10, 2484 (1968)]

A Mechanism for the Broadening of the Line Width $2\Delta H$ of Polycrystalline Ferrite Spinels. (E) L. I. Gromova, L. I. Koshkin, and S. A. Fechina. 10, 1965 (1969) [10, 2505 (1968)]

Influence of the Exchange Interaction between Nuclear Spins on the Dynamical Polarization of Nuclei. (T) L. I. Buishvili and M. D. Zviadadze. 10, 2015 (1969) [10, 2553 (1968)]

Stimulation of Exciton Lines in a Strong Magnetic Field. (T) M. I. D'yakonov, D. L. Mitchell, and A. L. Éfros. 10, 2021 (1969) [10, 2561 (1968)]

Absorption Spectrum of MnO Single Crystals. (E) R. N. Iskenderov, I. A. Drabkin, L. T. Emel'yanova, and Ya. M. Ksendzov. 10, 2031 (1969) [10, 2573 (1968)]

Spectral Investigation of Light Scattered by Quartz Crystals. (E) N. P. Gavrilko and D. F. Kiselev. 10, 2033 (1969) [10, 2574 (1968)]

Reflection Spectrum and Band Structure of TlSe. (E) F. M. Gashimzade and M. A. Nizametdinova. 10, 2097 (1969) [10, 2665 (1968)]

Determination of the Effective Width of the "Spectral Window" of an X-Ray Crystal Spectrometer. (E) G. Brogren, O. Efimov, and E. Persson. 10, 2138 (1969) [10, 2716 (1968)]

Density Changes and Optical Absorption of LiF Single Crystals after Irradiation with X Rays. (E) Yu. B. Vladimirskii, G. M. Zakharov, T. I. Nikitinskaya, and V. M. Reiterov. 10, 2250 (1969) [10, 2849 (1968)]

Single-Triplet Splitting for a Pair of F Centers in an Ionic Crystal. (T) A. A. Berezin. 10, 2280 (1969) [10, 2882 (1968)]

Dependence of the Absorption Edge of Films of Indium Antimonide on Thickness. (E) O. N. Filatov and I. A. Karpovich. 10, 2284 (1969) [10, 2886 (1968)]

Vibrational Spectrum of Crystals Having the Rutile Structure, and Nonanalytic Behavior of the Limiting Dipole Frequencies. (T) M. S. Shur and Yu. N. Tsarev. 10, 2293 (1969) [10, 2899 (1968)]

Oscillations in the Photoconductivity and Absorption Spectra of Silicon Due to A Centers. (E) I. P. Akimchenko, V. S. Vavilov, V. A. Vdovenkov, and A. F. Plotnikov. 10, 2917 (1969) [10, 3677 (1968)]

Absorption Spectrum of Vanadium Dioxide below the Semiconductor–Metal Transition Point. (E) D. N. Mirlin. 10, 2938 (1969) [10, 3697 (1968)]

Ultrasoft X-Ray Spectra of Mg and MgO. (E) V. A. Fomichev and I. I. Zhukov. 10, 2992 (1969) [10, 3753 (1968)]

PARAMAGNETIC PROPERTIES

Paramagnetic Resonance Investigation of Manganese Atoms Stabilized in Various Molecular Matrices. (E) R. A. Zhitnikov and N. V. Kolesnikov. 10, 89 (1968) [10, 120 (1968)]

Paramagnetic Absorption of Hypersound by Cr^{3+} in Polydomain $LiNbO_3$. (E) B. P. Smolyakov and U. Kh. Kopvillem. 10, 231 (1968) [10, 293 (1968)]

Effect of the Kinematic Interaction of Spin-Phonon Excitations in a Paramagnet. (T) E. M. Iolin. 10, 285 (1968) [10, 359 (1968)]

Relaxation of F^{19} Nuclei through Paramagnetic Impurities from the Iron and Rare-Earth Groups. (E) A. G. Akhmedov and R. A. Dautov. 10, 700 (1968) [10, 894 (1968)]

Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]

The Magnetic Properties of $EuLu_2O_4$ at Low Temperatures. (E) A. A. Samokhvalov, Yu. N. Morozov, V. G. Bamburov, N. V. Volkenshtein, and T. D. Zotov. 10, 1729 (1969) [10, 2206 (1968)]

Amplification of Luminescence in Antiferromagnetic Crystals of MnF_2 and $RbMnF_3$ in a Magnetic Field. (E/T) É. V. Matyushkin and N. N. Rozhitskii. 10, 1736 (1969) [10, 2214 (1968)]

Investigation of the Distribution Statistics of Paramagnetic Centers Using Relaxation Parameters of Nonuniformly Broadened EPR Lines. (T) V. I. Muromtsev, V. V. Pomortsev, and V. N. Kharitonova. 10, 1933 (1969) [10, 2462 (1968)]

The Effect of Paramagnetic Impurities on the Critical Field of a Superconductor. (T) S. L. Ginzburg. 10, 2299 (1969) [10, 2906 (1968)]

Anisotropy of the Paramagnetic Curie Point in Hexagonal Ferrites. (E) K. P. Belov, L. I. Koroleva, and L. P. Mitina. 10, 2329 (1969) [10, 2950 (1968)]

Theory of Scattering of Slow Neutrons in Paramagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and B. I. Barts. 10, 2483 (1969) [10, 3142 (1968)]

Magnetostriction of Paramagnetic Rare-Earth Gallates and Germanates with a Garnet Structure. (E) K. P. Belov, V. I. Sokolov, and Than Dyk Hien. 10, 2946 (1969) [10, 3706 (1968)]

PARAMAGNETIC RESONANCE AND RELAXATION

Paramagnetic Resonance Investigation of Manganese Atoms Stabilized in Various Molecular Matrices. (E) R. A. Zhitnikov and N. V. Kolesnikov. 10, 89 (1969) [10, 120 (1968)]

Pseudo-Stark Splitting of Electron Paramagnetic Resonance Lines of Fe^{3+} in Yttrium-Aluminum Garnet. (E/T) M. I. Bichurin, V. G. Kozlov, E. S. Kovalenko, D. V. Tsinchik, and G. I. Shvartsman. 10, 196 (1968) [10, 259 (1968)]

Paramagnetic Resonance in Fe-Doped Gallium Arsenide. (E) V. K. Bazhenov, V. A. Presnov, and S. P. Fedotov. 10, 205 (1968) [10, 268 (1968)]

Electric Paramagnetic Resonance of Cr^{3+} Ions in Polydomain $LiNbO_3$. (E) B. P. Smolyakov and U. Kh. Kopvillem. 10, 229 (1968) [10, 292 (1968)]

EPR of Some Iron-Group Ions in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 262 (1968) [10, 325 (1968)]

Dynamics of EPR, Electron Nuclear Double Resonance (ENDOR), and NMR for Centers Having $S = I = 1/2$. (T) V. L. Hochmann, V. Ya. Zevin, and B. D. Shanina. 10, 269 (1968) [10, 337 (1968)]

Electron Paramagnetic Resonance and Thermoluminescence of Irradiated Single Crystals of the Aluminosilicates $NaAlSi_3O_8$ and $LiAlSiO_4$. (E) V. A. Ioffe and I. S. Yanchevskaya. 10, 370 (1968) [10, 472 (1968)]

ESR Evidence of the State of Carriers in V_2O_5. (E) V. A. Ioffe and I. B. Patrina. 10, 639 (1968) [10, 815 (1968)]

Electron-Spin Correlation Function in a Diamagnet Containing Paramagnetic Impurities. (T) M. G. Melikiya. 10, 673 (1968) [10, 858 (1968)]

Paramagnetic Resonance and Spin-Lattice Relaxation of Yb^{3+} Ions in PbF_2 Crystals. (E) A. A. Antipin and I. N. Kurkin. 10, 994 (1968) [10, 1248 (1968)]

Temperature Dependence of the Cubic Splitting of the EPR Spectrum of Gd^{3+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 10, 1014 (1968) [10, 1272 (1968)]

Paramagnetic Resonance and Spin Lattice Relaxation of Tb^{3+} Ions in SrF_2 Single Crystals. (T/E) A. A. Antipin, L. D. Livanova, and L. Ya. Shekun. 10, 1025 (1968) [10, 1286 (1968)]

Double Modulation Method of Measuring the Width of a Spin Packet for an Inhomogeneously Broadened EPR Line. (T) V. I. Muromtsev, S. N. Safronov, U. I. Safronova, and I. G. Akhvlediani. 10, 1167 (1968) [10, 1475 (1968)]

Interaction of Paramagnetic Centers with Current Carriers in Rutile. (E) V. N. Bogomolov, E. K. Kudinov, S. T. Pavlov, and L. S. Sochava. 10, 1604 (1969) [10, 2043 (1968)]

The Angular Dependence of the Halfwidth of the EPR Line of Cu^{2+} in $ZnWO_4$. (T/E) M. D. Glinchuk and V. O. Oganesyan. 10, 1731 (1969) [10, 2209 (1968)]

Effect of NMR Saturation on EPR in the Case of Homogeneous Broadening. (T) L. L. Buishvili and M. D. Zviadadze. 10, 1885 (1969) [10, 2397 (1968)]

Investigation of the Distribution Statistics of Paramagnetic Centers Using Relaxation Parameters of Nonuniformly Broadened EPR Lines. (T) V. I. Muromtsev, V. V. Pomortsev, and V. N. Kharitonova. 10, 1933 (1969) [10, 2462 (1968)]

EPR of Mn^{2+} in the System $ZnWO_4$–$MnWO_4$. (E/T) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 10, 2046 (1969) [10, 2597 (1968)]

Aspects of Electron Paramagnetic Resonance in n-Type InSb. (E) E. M. Gershenzon, N. M. Pevin, and M. S. Fogel'son. 10, 2278 (1969) [10, 2880 (1968)]

Electron Paramagnetic Resonance Spectrum of Mn^{2+} Ions in Ferroelectric $LiNbO_3$. (E/T) M. P. Petrov. 10, 2574 (1969) [10, 3254 (1968)]

EPR Spectrum of Ti^{3+} in SrF_2 and Cu^{2+} in CdF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 10, 2722 (1969) [10, 3438 (1968)]

EPR Studies of Mn^{2+} in Some II-VI Mixed Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 10, 2754 (1969) [10, 3471 (1968)]

Electron Paramagnetic Resonance of "Parallel" Chrome Ion Pairs in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 10, 2808 (1969) [10, 3535 (1968)]

The Crystal Field in Rutiles and the EPR Spectrum of Ions with a d^1-Shell. (T) B. P. Berkovskii, M. P. Votinov, B. D. Piterkin, and D. D. Suchkov. 10, 2867 (1969) [10, 3615 (1968)]

Pseudo-Stark Splitting of EPR Lines of Cr^{3+} in α-$MgMoO_4$. (E) V. G. Kozlov and M. L. Meil'man. 10, 2919 (1969) [10, 3679 (1968)]

EPR Spectrum and Spin-Lattice Relaxation in Irradiated Polyethylene. (E) L. Ya. Dzhabakhishvili, G. D. Ketiladze, and T. I. Sanadze. 10, 2954 (1969) [10, 3715 (1968)]

Temperature Dependence of the Cubic Splitting in the EPR Spectrum of Fe^{3+} in $SrTiO_3$ Single Crystals. (E) T. Reval. 10, 2984 (1969) [10, 3744 (1968)]

PHOTOELECTRIC PROPERTIES

External Photoelectric Effect in Al Single Crystals. (E) B. Sieroczynska-Wojas. 10, 544 (1968) [10, 693 (1968)]

Quenching of Photoconductivity of AgBr Single Crystals by the Constant Background Illumination Method. (E) K. N. Loskutov and P. V. Meiklyar. 10, 551 (1968) [10, 703 (1968)]

Nature of Infrared Luminescence ($\lambda_m = 1.2\ \mu$) in CdSe Single Crystals and Its Relationship to Photoconductivity. (E) M. K. Sheinkman, I. B. Ermolovich, and G. L. Belen'kii. 10, 1394 (1968) [10, 1769 (1968)]

Photoconductivity Spectrum of Diamond. (E) K. N. Pogodaev and V. S. Tatarinov. 10, 1510 (1968) [10, 1911 (1968)]

Current-Voltage Characteristics of Electron-Hole Plasma under Pinch Effect. (T) A. E. Stefanovich. 10, 1687 (1969) [10, 2153 (1968)]

Photomagnetic Effect in Quantizing Magnetic Fields with Electron Heating by Light. (E/T) R. I. Lyagushchenko, R. V. Parfen'ev, I. I. Farbshtein, S. S. Shalyt, and I. N. Yassievich. 10, 1764 (1969) [10, 2241 (1968)]

Even Photomagnetic Effect in Cuprous Oxide Single Crystals. (E) G. N. Sever. 10, 1824 (1969) [10, 2318 (1968)]

Influence of the Polarization Charges and External Field Intensity on the Photoconductivity Spectra of Organic Dye Films. (E) A. T. Vartanyan, G. N. Meshkova, and A. M. Meshkov. 10, 1847 (1969) [10, 2347 (1968)]

Saturation Mechanism of the Photocurrent and the Occurrence of Relaxation Vibration in CdSe Single Crystals. (E/T) V. V. Serdyuk, G. G. Chemeresyuk, and I. A. Starostin. 10, 2201 (1969) [10, 2797 (1968)]

Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. (T) V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich. 10, 2309 (1969) [10, 2920 (1968)]

Photoconductivity of Single Crystals of MnO. (E/T) I. A. Drabkin, L. T. Emel'yanova, R. N. Iskenderov, and Ya. M. Ksendzov. 10, 2428 (1969) [10, 3082 (1968)]

Quantum Oscillations of the Kinetic and Photoelectric Coefficients on n-Type Bismuth Telluride (Bi_2Te_3). (E) R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman. 10, 2432 (1969) [10, 3087 (1968)]

Interaction of Excitons with Optical Phonons in the Photoconductivity Process. (E) B. V. Novikov, V. I. Safarov, and M. L. Shubnikov. 10, 2484 (1969) [10, 3144 (1968)]

Oscillations in the Photoconductivity and Absorption Spectra of Silicon Due to A Centers. (E) I. P. Akimchenko, V. S. Vavilov, V. A. Vdovenkov, and A. F. Plotnikov. 10, 2917 (1969) [10, 3677 (1968)]

The Photoelectric Properties of AgBr and Other Silver Halide Films. (E/T) B. U. Barshchevskii. 10, 2930 (1969) [10, 3689 (1968)]

Trapping Mechanism of the Isothermal Decay of the Photocurrent of Cadmium Sulphide Single Crystals. (E/T) V. V. Zomov and V. V. Serdyuk. 10, 2936 (1969) [10, 3695 (1968)]

PLASMA PROPERTIES

Effect of Diffusion on Amplification of Electromagnetic Waves in a Semiconductor Plasma in the Presence of a Negative Volt-Ampere Characteristic. (T) R. R. Kikvidze. 10, 213 (1968) [10, 276 (1968)]

Nonlinear Optical Properties of a Solid-State Plasma in an Electric Field. (T) V. N. Alyamovskii. 10, 238 (1968) [10, 301 (1968)]
Oscillations of a Plasma Medium in an External Electric Field. (T) S. P. Bakanov and A. A. Rukhadze. 10, 378 (1968) [10, 482 (1968)]
Angular Dependence of the Cyclotron-Resonance for Hot Carriers in Germanium. (E/T) D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak. 10, 406 (1968) [10, 518 (1968)]
Interaction between Plasma Oscillations and Phonons. (T) M. A. Mekhtiev. 10, 610 (1968) [10, 779 (1968)]
Excitation of Electromagnetic Waves in a Solid-State Plasma Having a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze and E. P. Fetisov. 10, 911 (1968) [10, 1147 (1968)]
Superheating Instability in a Semiconductor Plasma in Crossed Electric and Magnetic Fields. (T) Sh. M. Kogan. 10, 1213 (1968) [10, 1536 (1968)]
Theory of Raman Scattering in Semiconductors with Plasmons Coupled to Longitudinal Optical Phonons. (T) G. M. Genkin and V. V. Zil'berberg. 10, 1578 (1969) [10, 2008 (1968)]
Current-Voltage Characteristics of Electron-Hole Plasma under Pinch Effect. (T) A. E. Stefanovich. 10, 1687 (1969) [10, 2153 (1968)]
The Decay of a Volume and Surface Plasmon with the Excitation of an Electron-Hole Pair. (T) V. M. Agranovich and M. A. Mekhtiev. 10, 2304 (1969) [10, 2913 (1968)]
The Effect of a Small Transverse Magnetic Field on Helical Waves in Solid-State Plasma. (T) Yu. I. Tsipivka and G. F. Karavaev. 10, 2689 (1969) [10, 3406 (1968)]
Observation of Spatially Phased and Out-of-Phase Oscillations of an Electron-Hole Plasma in a Semiconductor. (E) M. I. Iglitsyn, É. G. Pel', L. Ya. Pervova, and V. I. Fistul'. 10, 2730 (1969) [10, 3446 (1968)]

RADIATION INTERACTIONS WITH SOLIDS

Theory of the Penetration of Fast Protons into a Solid. (T/E) B. Ya. Yurkov. 10, 32 (1968) [10, 47 (1968)]
Luminescence of SiC Single Crystals Bombarded with Electrons, Hydrogen Ions, and Deuterium Ions of Energies up to 20 keV. (E) V. V. Makarov and N. N. Petrov. 10, 154 (1968) [10, 205 (1968)]
The Correlation of the Electrical and Mechanical Properties of Irradiated Germanium Crystals. (E) V. V. Khainovskaya, F. L. Édel'man, and L. S. Smirnov. 10, 211 (1968) [10, 274 (1968)]
Anisotropy of Chromium Films Prepared by the Oblique Incidence of a Molecular Beam on a Substrate. (E) V. P. Kostyuk and I. N. Shklyarevskii. 10, 250 (1968) [10, 315 (1968)]
Electron Paramagnetic Resonance and Thermoluminescence of Irradiated Single Crystals of the Aluminosilicates $NaAlSi_3O_8$ and $LiAlSiO_4$. (E) V. A. Ioffe and I. S. Yanchevskaya. 10, 370 (1968) [10, 472 (1968)]
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mul'tanovskaya. 10, 397 (1968) [10, 507 (1968)]
Elastic Reflection of Electrons from Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 518 (1968) [10, 655 (1968)]
Influence of the Structure of a Substance on the Coincidence Bremsstrahlung Spectrum. (T) V. V. Batygin. 10, 580 (1968) [10, 740 (1968)]
Influence of the Crystal Structure on the Loss of Energy by Fast Protons in Single Crystals of Alkali Halides. (E) É. T. Shipatov and B. A. Kononov. 10, 670 (1968) [10, 854 (1968)]
Scattering of Slow Neutrons by the Protons in Hydrogen Bonds Using the Double-Potential-Well Model. (T) S. S. Stamenkovich. 10, 675 (1968) [10, 861 (1968)]
Ion-Bombardment Induced Damage in Diamond Layers. (E) V. V. Galkin, M. I. Guseva, V. V. Krasnopevtsev, and Yu. V. Milyutin. 10, 706 (1968) [10, 902 (1968)]
Influence of Electron Bombardment on Electrical Properties of Thin Te Films. (E) L. I. Ivankiv and Z. V. Solyanik. 10, 715 (1968) [10, 911 (1968)]
Experimental Determination of the Coefficient of Radiation-Stimulated Diffusion in CdS. (E) M. A. Kaneev. 10, 726 (1968) [10, 922 (1968)]
Distribution and Range of Boron and Phosphorus Ions Used in Bombardment of SiO_2. (E) V. G. Volod'ko, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 10, 828 (1968) [10, 1048 (1968)]
Electron Emission Due to Bombardment of NaCl and KCl Single Crystals with Slow Inert-Gas Ions Incident at Various Angles. (E) N. N. Petrov, N. F. Volkov, and A. I. Kondrashev. 10, 832 (1968) [10, 1053 (1968)]
Correlation between Changes in the Lattice Constant and Electrical Conductivity of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva and A. A. Shishelov. 10, 1002 (1968) [10, 1256 (1968)]
The Effect of γ Irradiation upon the Density of Alkali Halide Crystals. (E) G. A. Andreev and G. Ya. Vasil'ev. 10, 1030 (1968) [10, 1292 (1968)]
Spin-Lattice Relaxation of Ce^{3+} and Yb^{3+} Ions in Single Crystals of $CaWO_4$ and $PbMoO_4$. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 10, 1136 (1968) [10, 1433 (1968)]
Mechanism of the Origin of the Fine Structure of the Angular Dependence of the Secondary-Electron Emission Coefficient of Single Crystals. (E) A. P. Komar, Yu. S. Korobochko, B. D. Grachev, and V. I. Mineev. 10, 1222 (1968) [10, 1547 (1968)]
Interaction of Dislocations with Radiation Defects in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 10, 1224 (1968) [10, 1549 (1968)]
X-Ray Scattering by Real Alkali-Halide Single Crystals. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 10, 1330 (1968) [10, 1684 (1968)]
Thermal Stability of Uranium Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]
A Comparative Study of the Energy Distribution of Secondary Electrons and Photoelectrons Excited by Soft X Rays. (E) N. G. Nakhodkin and P. V. Mel'nik. 10, 1462 (1968) [10, 1859 (1968)]
Interaction of Electrons with Germanium Single Crystals. (E) A. I. Titov. 10, 1489 (1968) [10, 1891 (1968)]
Angular Dependence of the Secondary Electron Emission Coefficient of Single-Crystal Silicon in the Range of Incident Electron Energy from 100 to 2000 eV. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1512 (1968) [10, 1913 (1968)]
Calculation of the Inelastic Backscattering and Transmission Coefficients of Medium-Energy Electrons. (T) A. A. Ostroukhov. 10, 1649 (1969) [10, 2105 (1968)]
Structure and Optical Properties of Gallium Layers Precipitated in Vacuum. (E) I. Yu. Rapp, I. N. Shklyarevskii, and R. G. Yarovaya. 10, 1780 (1969) [10, 2257 (1968)]
Classification and Shape of Characteristic Energy Loss Lines. (T) V. V. Rumyantsev. 10, 1793 (1969) [10, 2275 (1968)]
Channeling of Electrons in Thin Single Crystals of Copper. (E) B. D. Grachev, A. P. Komar, Yu. S. Korobochko, and V. I. Mineev. 10, 1894 (1969) [10, 2408 (1968)]
Collision of an Atom with a Solid Film. (T) A. S. Dolgov and N. A. Khizhnyak. 10, 2083 (1969) [10, 2647 (1968)]
Scattering of Slow Cesium Ions by the Surface of a Tungsten Single Crystal. (E) V. I. Vekaler. 10, 2109 (1969) [10, 2680 (1968)]
Channeling of High Energy Protons in Ionic Single Crystals. (E/T) É. T. Shipatov. 10, 2132 (1969) [10, 2709 (1968)]
Determination of the Effective Width of the "Spectral Window" of an X-Ray Crystal Spectrometer. (E) G. Brogren, O. Efimov, and E. Persson. 10, 2138 (1969) [10, 2716 (1968)]
Reactor-Irradiated Tin Compounds Studied by the Nuclear Gamma Resonance Method. (E) A. N. Murin, B. G. Lur'e, S. I. Bondarevskii, and P. P. Seregin. 10, 2207 (1969) [10, 2803 (1968)]
Density Changes and Optical Absorption of LiF Single Crystals after Irradiation with X Rays. (E) Yu. B. Vladimirskii, G. M. Zakharov, T. I. Nikitinskaya, and V. M. Reiterov. 10, 2250 " (1969) [10, 2849 (1968)]

Anomalous Penetration of Charged Particles through a Crystal. (T) M. A. Kumakhov. 10, 2254 (1969) [10, 2854 (1968)]
Effect of Neutron Radiation on Dislocation Mobility in LiF Crystals. (E) A. A. Urusovskaya and M. Perzhinova. 10, 2487 (1969) [10, 3146 (1968)]
Spectral X-Ray Sensitivity, Energy of Formation of a Carrier Pair, and Quantum Yield in Polymorphic Systems Based on Lead Oxide. (E) M. L. Galantseva and V. A. Izvoschikov. 10, 2509 (1969) [10, 3168 (1968)]
Temperature Dependence and Mechanisms of Radiative Creation of Electronic Color Centers in KCl and KCl—Ag Crystals. (E) S. M. Muradov and M. A. Élango. 10, 2548 (1969) [10, 3218 (1968)]
Temperature Dependence of the Electron Bombardment Effects on the Electronic and Physical Properties of Semiconducting Thin Films. (E/T) L. I. Ivankiv, B. M. Palyukh, and Z. V. Solyanik. 10, 2694 (1969) [10, 3412 (1968)]
Effect of Temperature and Ion Bombardment on the Angular Dependences of the Secondary-Electron Emission from a Germanium Single Crystal. (E) I. A. Abroyan and A. I. Titov. 10, 2716 (1969) [10, 3432 (1968)]
The Formation of F Centers during the Decay of X-Ray Excited States in Ionic Crystals. (T/E) M. A. Élango. 10, 2718 (1969) [10, 3434 (1968)]
Mössbauer-Effect Study of Reactor Irradiation of Tin Monoxide. (E) S. I. Bondarevskii and P. P. Seregin. 10, 2736 (1969) [10, 3454 (1968)]
The Fluctuations and Scattering Processes of Slow Neutrons and Electromagnetic Waves in Ferromagnets Having Small Magnetic Anisotropy. (T) I. A. Akhiezer and D. P. Belozorov. 10, 2835 (1969) [10, 3571 (1968)]
Ion-Electron Emission: Formation and Annealing of Radiation Defects during Bombardment of Germanium by Xenon Ions. (E) I. A. Abroyan, V. S. Belyakov, and A. I. Tutov. 10, 2965 (1969) [10, 3726 (1968)]

SEMICONDUCTING PROPERTIES

The Josephson Tunnel Effect in Anisotropic Superconductors Containing Nonmagnetic Impurities. (T) A. A. Golub. 10, 61 (1968) [10, 84 (1968)]
Nonlinear Theory of Recombination Waves in the Region of Long Wavelengths. (T) V. L. Gel'mont. 10, 70 (1968) [10, 95 (1968)]
Details of Observations of Cyclotron Resonance from Changes in the Static Conductivity. (E/T) E. M. Gershenzon, Yu. A. Gurvich, S. L. Orlova, and N. G. Ptitsyna. 10, 144 (1968) [10, 193 (1968)]
Sound Dispersion in Superconducting Semiconductors. (T) V. V. Vas'kin and V. Ya. Demikhovskii. 10 330 (1968) [10, 419 (1968)]
Nonlinear Theory of Sound Amplification in a Piezoelectric Semiconductor with Traps. (T) R. Katilyus. 10, 359 (1968) [10, 458 (1968)]
Angular Dependence of the Cyclotron-Resonance for Hot Carriers in Germanium. (E/T) D. A. Kichigin, V. P. Lobachev, and G. E. Chernyak. 10, 406 (1968) [10, 518 (1968)]
Scattering of Light by Charged Centers in Semiconductors. (T) A. A. Grinberg and N. I. Kramer. 10, 458 (1968) [10, 582 (1968)]
Quantum Theory of Free-Electron Dielectric Constant in Semiconductors. (T) A. G. Aronov, G. E. Pikus, and D. Sh. Shekhter. 10, 645 (1968) [10, 822 (1968)]
Anisotropic Electrooptic Effects in Semiconductors. (T) A. G. Aronov and G. E. Pikus. 10, 648 (1968) [10, 825 (1968)]
Formation of Dislocations in Germanium during Diffusion of Arsenic. (E) I. M. Sukhodreva and L. D. Cheryukanova. 10, 737 (1968) [10, 932 (1968)]
Photoeffect Due to Generation of Excitons in Semiconductors. (E) I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova. 10, 770 (1968) [10, 974 (1968)]
The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^{V}$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]
Nonlinear Theory of Recombination Waves in the Short-Wave Range. (T) B. L. Gel'mont. 10, 1155 (1968) [10, 1458 (1968)]
Cutoff of Dissipative Effects in Multivalley Semiconductors. (T) I. I. Vosilyus and I. B. Levinson. 10, 1158 (1968) [10, 1462 (1968)]
Theory of a Gradient Instability of a Current in Semiconductors. (T) R. Z. Vitlina and S. K. Savvinykh. 10, 1292 (1968) [10, 1634 (1968) [10, 1634 (1968)]
Theory of a Gradient Instability in the Absence of a Magnetic Field (A Reply to the Remarks of R. Z. Vitlina and S. K. Savvinykh). (T) L. É. Gurevich and I. V. Ioffe. 10, 1298 (1968) [10, 1643 (1968)]
Theory of Cyclotron Resonance of Hot Electrons. (T) L. D. Abuladze and Z. S. Kachlishvili. 10, 1500 (1968) [10, 1902 (1968)]
Theory of Raman Scattering in Semiconductors with Plasmons Coupled to Longitudinal Optical Phonons. (T) G. M. Genkin and V. V. Zil'berberg. 10, 1578 (1969) [10, 2008 (1968)]
Planar Effect for Helicon Waves in a Large Ferromagnetic Semiconductor. (T) G. M. Nedlin and R. Kh. Shapiro. 10, 1745 (1969) [10, 2223 (1968)]
Acoustoelectric Effect in Many-Valley Semiconductors and Semimetals in Quantizing Magnetic Fields. (T) Yu. M. Gal'perin. 10, 1840 (1969) [10, 2338 (1968)]
Fine Structure of the Oscillation Maxima of Magnetoresistance in n-InAs. (E) R. I. Bashirov. 10, 1994 (1969) [10, 2534 (1968)]
Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]
Possibility of Instability in Ferroelectric Crystals Having Semiconducting Properties. (T) M. S. Shur. 10, 2087 (1969) [10, 2652 (1968)]
Theory of Transport Phenomena in Semiconductors with Low Mobility. (T) A. L. Éfros. 10, 2245 (1969) [10, 2844 (1968)]
Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. (T) V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich. 10, 2309 (1969) [10, 2920 (1968)]
Propagation of Ultrasound in a Semiconductor in the Presence of a High-Frequency Electric Field. (T) É. M. Épshtein. 10, 2325 (1969) [10, 2945 (1968)]
Influence of Redistribution of the Electric Field on the Amplification of Acoustic Waves in Semiconductors. (T) V. L. Gurevich, R. Katilyus, and B. D. Laikhtman. 10, 2347 (1969) [10, 2975 (1968)]
Electron Scattering by Neutral Acceptors in Semiconductors. (T/E) L. E. Blagoeklonskaya, E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova. 10, 2374 (1969) [10, 3010 (1968)]
Hall Effect in Polaron Semiconductors. (T) Yu. A. Firsov. 10, 2387 (1969) [10, 3027 (1968)]
Phonon Heating in a Semiconductor in a Strong Electric Field and a Quantizing Magnetic Field and Its Effect on the Electrical Conductivity. (E) L. É. Gurevich and T. M. Gasymov. 10, 2577 (1969) [10, 3258 (1968)]
Magnetic Moments of Shallow Acceptor Centers in Semiconductors Having Degenerate Bands. (T) E. I. Butikov. 10, 2657 (1969) [10, 3364 (1968)]
Observation of Spatially Phased and Out-of-Phase Oscillations of an Electron-Hole Plasma in a Semiconductor. (E) M. I. Iglitsyn, É. G. Pel', L. Ya. Pervova, and V. I. Fistul'. 10, 2730 (1969) [10, 3446 (1968)]
Amplification of Acoustic Noise in a Piezosemiconductor. (E/T) V. I. Baibakov. 10, 2738 (1969) [10, 3456 (1968)]
Theory of Electric Induction Waves in Ferroelectric Semiconductor Crystals. (T) M. S. Shur. 10, 2827 (1969) [10, 3560 (1968)]

SEMICONDUCTOR MATERIALS AND DEVICES

Semiconductor Properties of Barium Titanate. (T) G. M. Guro, I. I. Ivanchik, and N. F. Kovtonyuk. 10, 100 (1968) [10, 135 (1968)]

Tunneling in Crossed Electric and Magnetic Fields in Gallium Antimonide. (E) V. M. Stuchebnikov, V. I. Tikhonov, and V. I. Fistul'. 10, 423 (1968) [10, 539 (1968)]

Anisotropy of Two-Photon Absorption in Optical Excitation of CdSe Semiconductor Lasers. (E/T) A. Z. Grasyuk, I. G. Zubarev, and A. N. Mentser. 10, 427 (1968) [10, 543 (1968)]

Diffusion, Solubility, and Influence of Copper on the Electrical Properties of Indium Arsenide. (E) B. I. Boltaks, S. I. Rembeza, and M. K. Bakhadyrkhanov. 10, 432 (1968) [10, 550 (1968)]

Relaxational Polarization in Semiconducting Barium Titanate. (E) G. V. Bois and N. A. Mikhailova. 10, 495 (1968) [10, 630 (1968)]

Elastic Reflection of Electrons from Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 518 (1968) [10, 655 (1968)]

Electron-Microscope Observation of Prismatic Dislocation Loops in Ge. (E) Yu. P. Kabanov, L. M. Morgulis, and Yu. A. Osip'yan. 10, 523 (1968) [10, 665 (1968)]

Hall Effect and Electrical Resistivity of $CrTe_{1-x}Sb_x$ Alloys. (E) N. P. Grazhdankina, L. A. Matyushenko, and Yu. S. Bersenev. 10, 527 (1968) [10, 670 (1968)]

Calculation of the Conditions for the Excitation of Recombination Waves in Germanium Containing Compensating Impurities. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 10, 686 (1968) [10, 876 (1968)]

Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]

Double Refraction and Dichroism of UHF Waves Due to Hot Electrons in n-Ge and n-Si. (E/T) A. B. Davydov and R. V. Pomortsev. 10, 870 (1968) [10, 1098 (1968)]

The Nature of the Secondary Dislocations Observed in Silicon after Diffusion. (E) V. M. Al'tshuller. 10, 901 (1968) [10, 1136 (1968)]

Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

The Effect of Smoothed Surface Defects on the Rupture Stresses of Germanium Single Crystals at Temperatures of 300 and 4.2°K. (E) S. V. Tsivinskii, O. V. Klyavin, and A. V. Stepanov. 10, 1108 (1968) [10, 1397 (1968)]

Elastic Moduli of Heavily Doped n-Type Germanium at 300–550°K. (E) V. M. Beilin, Yu. Kh. Vekilov, A. E. Kadyshevich, and O. M. Krasil'nikov. 10, 1226 (1968) [10, 1550 (1968)]

Nature of the Exoelectron Emission from the Surface of Silicon. (E) Yu. I. Kozlov and V. I. Sokolov. 10, 1237 (1968) [10, 1561 (1968)]

Angular Dependence of Secondary-Emission Characteristics of Silicon Single Crystals. (E) A. R. Shul'man, V. V. Korablev, and Yu. A. Morozov. 10, 1246 (1968) [10, 1570 (1968)]

Integrated Characteristics of the Anomalous Transmission of X Rays in Germanium for the Wavelength Range 0.4970–2.2896 Å. (E/T) O. Efimov and E. Persson. 10, 1756 (1969) [10, 2234 (1968)]

Germanium Single-Crystal Production in a Rotating Container. (E) A. N. Kirgintsev and Yu. A. Rybin. 10, 1857 (1969) [10, 2361 (1968)]

Dislocation Distribution in Germanium Crystals Grown in the Form of Thin Strips. (E) S. V. Tsivinskii and A. V. Stepanov. 10, 1977 (1969) [10, 2519 (1968)]

Existence of the Electromechanical Effect in Germanium. (R) M. S. Ablova and T. A. Kontorova. 10, 2000 (1969) [10, 2540 (1968)]

Electrical Conductivity of Silicon Monoxide Thin Films. (E/T) V. Ya. Kunin, V. V. Pogulyaev, and A. N. Tsikin. 10, 2023 (1969) [10, 2564 (1968)]

Concentration Dependence of the Diffusion Coefficient of Zinc in Indium Arsenide. (E) B. I. Boltaks, S. Ya. Ksendzov, and S. I. Rembeza. 10, 2186 (1969) [10, 2778 (1968)]

Current Instability in n-Type Germanium in Crossed Electric and Magnetic Fields. (E) L. L. Lyuze, A. V. Zav'yalov, and G. F. Karlova. 10, 2195 (1969) [10, 2790 (1968)]

Saturation Mechanism of the Photocurrent and the Occurrence of Relaxation Vibration in CdSe Single Crystals. (E/T) V. V. Serdyuk, G. G. Chemeresyuk, and I. A. Starostin. 10, 2201 (1969) [10, 2797 (1968)]

Excitation of Lamb Waves in CdS Single Crystals. (E) I. Ya. Kucherov and I. V. Ostrovskii. 10, 2216 (1969) [10, 2814 (1968)]

Thermal Defects in Germanium. (E) L. F. Konorova. 10, 2233 (1969) [10, 2831 (1968)]

Detection of Shubnikov–de Haas Oscillations in n-Type GaAs. (E) A. V. Matveenko, G. D. Mel'nikov, and R. V. Parfen'ev. 10, 2243 (1969) [10, 2842 (1968)]

Precision Measurements of Lattice Periods of Strongly Doped Germanium and Silicon. (E) V. T. Bublik, S. S. Gorelik, and A. N. Dubrovina. 10, 2247 (1969) [10, 2846 (1968)]

Mössbauer Effect in InAs and GaP. (E) V. Ya. Basetskii, B. N. Veits, V. Ya. Grigalis, Yu. D. Lisin, and I. M. Taksar. 10, 2252 (1969) [10, 2852 (1968)]

The Energy Spectrum of Gallium Arsenide Doped with Silicon. (E) Zh. I. Alferov, D. Z. Garbuzov, E. P. Morozov, I. I. Protasov, and D. N. Tret'yakov. 10, 2260 (1969) [10, 2861 (1968)]

The Diffusion and Solubility of Copper in Indium Phosphide. (E) K. A. Arseni. 10, 2263 (1969) [10, 2864 (1968)]

Low-Frequency Damping in Germanium. (E) L. N. Aleksandrov, Yu. N. Golobokov, V. N. Orlov, and F. L. Édel'man. 10, 2269 (1969) [10, 2871 (1968)]

Aspects of Electron Paramagnetic Resonance in n-Type InSb. (E) E. M. Gershenzon, N. M. Pevin, and M. S. Fogel'son. 10, 2278 (1969) [10, 2880 (1968)]

Temperature Dependence of the Elastic Constants of Heavily-Doped Gallium Arsenide. (E) V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov. 10, 2443 (1969) [10, 3101 (1968)]

Magnetophonon Oscillations of Transverse Magnetoresistance in n-Type Germanium. (E/T) N. G. Gluzman and I. M. Tsidil'kovskii. 10, 2469 (1969) [10, 3128 (1968)]

Ionization of Diamagnetic Excitons and Quantum Effects in the Valence Band of Germanium. (E) B. P. Zakharchenya, R. P. Seisyan, and A. V. Varfolomeev. 10, 2493 (1969) [10, 3153 (1968)]

Deposition of AlSb Semiconducting Films. (E) L. S. Palatnik and P. N. Bogatov. 10, 2526 (1969) [10, 3184 (1968)]

Effect of Charged Additions on the Plasticity of Semiconducting $A^{III}B^{V}$ Compounds. (E) V. B. Osvenskii, O. G. Stolyarov, and M. G. Mil'vidskii. 10, 2540 (1969) [10, 3208 (1968)]

Radical-Recombination Luminescence of Boron Nitride. (E) G. A. Lubyanskii, V. V. Styrov, and V. A. Sokolov. 10, 2653 (1969) [10, 3359 (1968)]

Phase Transitions in $A_{IV}B_{VI}C_{VII}$ Ferroelectric Semiconductors. (E) T. A. Pikka and V. M. Fridkin. 10, 2668 (1969) [10, 3378 (1968)]

Decreased Lattice Thermal Conductivity of Ge, Si, and Their Solid Solutions. (E) A. V. Ioffe. 10, 2713 (1969) [10, 3430 (1968)]

SUPERCONDUCTING PROPERTIES

The Josephson Tunnel Effect in Anisotropic Superconductors Containing Nonmagnetic Impurities. (T) A. A. Golub. 10, 61 (1968) [10, 84 (1968)]

Investigation of the Superconducting Properties of Nb–Ti Alloys. (E) I. A. Baranov, K. I. Boikova, Z. A. Guts, L. A. Kurakina, A. V. Kogan, A. A. Fogel', S. I. Tsypkin, and R. S. Shmulevich. 10, 318 (1968) [10, 404 (1968)]

Sound Dispersion in Superconducting Semiconductors. (T) V. V. Vas'kin and V. Ya. Demikhovskii. 10, 330 (1968) [10, 419 (1968)]

Spin-Lattice Relaxation in M_3X Superconducting Compounds with Two Overlapping Energy Bands. (T) I. I. Fal'ko and A. D. Serdyuk. 10, 541 (1968) [10, 688 (1968)]

Effect of Fluctuations on the Properties of a Superconductor above the Critical Temperature. (T) L. G. Aslamazov and A. I. Larkin. 10, 875 (1968) [10, 1104 (1968)]
The Effect of Paramagnetic Impurities on the Critical Field of a Superconductor. (T) S. L. Ginzburg. 10, 2299 (1969) [10, 2906 (1968)]
The Josephson Effect in a Very Dirty Superconductor. (T) A. A. Golub. 10, 2501 (1969) [10, 3160 (1968)]

SURFACE AND INTERFACE PHENOMENA

Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]
Investigation of the Adsorption of Potassium Ions on the Surface of Molybdenum. (E) N. G. Ban'kovskii, E. M. Stefanovskaya, and V. P. Fedorinov. 10, 113 (1968) [10, 153 (1968)]
Asymmetry of Current Passage through Metal–Dielectric–Metal Thin-Film Systems. (E) A. E. Gershinskii and É. G. Kostsov. 10, 200 (1968) [10, 263 (1968)]
The Influence of the Cathode Material on the Electrical Strength of Solid Dielectrics. (E) I. S. Pikalova. 10, 215 (1968) [10, 278 (1968)]
Mass-Spectrometric Investigation of the Interaction of Oxygen with (110) and (100) Faces of a Tungsten Single Crystal. (E) Yu. G. Ptushinskii and B. A. Chuikov. 10, 565 (1968) [10, 722 (1968)]
Investigation of the Structure and Work Function of Platinum Films on Tungsten and of Adsorption of Cesium on Such Films. (E) A. G. Naumovets and A. G. Fedorus. 10, 627 (1968) [10, 801 (1968)]
Calculation of the Influence of Strong Electric Fields on the Activation Energy of Surface Diffusion. (T/E) I. L. Gufel'd. 10, 743 (1968) [10, 940 (1968)]
Behavior of Cesium on the Faces of a Large Tungsten Single Crystal. (E) N. A. Gorbatyi, L. V. Reshetnikova, and V. M. Sultanov. 10, 940 (1968) [10, 1185 (1968)]
Desorption of Titanium from Tungsten in a Strong Electric Field. (E) G. G. Vladimirov. 10, 957 (1968) [10, 1207 (1968)]
Evaporation Kinetics of GaAs. (E) S. A. Aitkhozhin, S. A. Semiletov, and V. V. Luder. 10, 1005 (1968) [10, 1259 (1968)]
The Effect of Smoothed Surface Defects on the Rupture Stresses of Germanium Single Crystals at Temperatures of 300 and 4.2°K. (E) S. V. Tsivinskii, O. V. Klyavin, and A. V. Stepanov. 10, 1108 (1968) [10, 1397 (1968)]
Investigation of Surface Self-diffusion of Niobium in a Strong Electric Field by Means of a Field-Emission Microscope. (E) G. A. Odishariya. 10, 1130 (1968) [10, 1425 (1968)]
Exciton Annihilation at a Metal-Dielectric Interface. (T) V. M. Agranovich, Yu. V. Konobeev, and M. A. Mekhtiev. 10, 1383 (1968) [10, 1754 (1968)]
Role of Surface Waves in Spin-Wave Resonance in Films. (T) V. M. Sokolov and B. A. Tavger. 10, 1412 (1968) [10, 1793 (1968)]
Investigation of Sodium Adsorption on the Surface of a Tungsten Single Crystal in a Field-Emission Microscope. (E) E. V. Klimenko and V. K. Medvedev. 10, 1562 (1969) [10, 1986 (1968)]
Adsorption, Migration, and Evaporation of Yttrium on a Tungsten Single Crystal. (E) B. M. Palyukh and L. L. Sivers. 10, 1585 (1969) [10, 2018 (1968)]
Thermoelectronic Parameters of the Faces of a Nickel Single Crystal. (E) A. Kashetov and N. A. Gorbatyi. 10, 1673 (1969) [10, 2135 (1968)]
Adsorption of Carbon Monoxide on (110) and (113) Surfaces of Tungsten Single Crystals Partly Covered by Oxygen. (E) V. S. Agelkin and Yu. G. Ptushinskii. 10, 1698 (1969) [10, 2168 (1968)]
Contact Potential Difference of Double-Layer Ba and Au Films on Nb. (E) E. A. Tishin and B. M. Tsarev. 10, 1719 (1969) [10, 2196 (1968)]
Scattering of Slow Cesium Ions by the Surface of a Tungsten Single Crystal. (E) V. I. Veksler. 10, 2109 (1969) [10, 2680 (1968)]
Effect of Nonequilibrium Current Carriers on the Formation of Boundaries between Phases in the Ferroelectric Semiconductor SbSI. (E/T) I. I. Groshik and V. M. Fridkin. 10, 2276 (1969) [10, 2878 (1968)]
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1969) [10, 3060 (1968)]
Method of Investigating the Oxidation Kinetics of Metals. (E) I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii. 10, 2439 (1969) [10, 3097 (1968)]
Oxidation of Tungsten at Room Temperature. (E) V. F. Rybalkov, V. Ya. Kolot, and Ya. M. Fogel'. 10, 2518 (1969) [10, 3176 (1968)]
Theory of Shallow Surface States. (T) A. A. Karpushin. 10, 2793 (1969) [10, 3515 (1968)]
Mössbauer Study of States of Iron Atoms at Nickel Grain Boundaries. (E) B. S. Bokshtein, Yu. B. Voitkovskii, A. A. Zhukhovitskii, and G. N. Pautkina. 10, 2940 (1969) [10, 3699 (1968)]
Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

THERMAL PROPERTIES

The Relation between the Anomalous Behavior of the Heat Capacity and the Linear Thermal Expansion Coefficient at the Curie Point and Critical Fluctuations. (T) É. L. Nagaev. 10, 5 (1968) [10, 9 (1968)]
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]
Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]
Investigation of the Thermal Dissociation of Alkaline-Earth Metal Oxides in High Vacuum. (E) G. Ya. Pikus, V. F. Shnyukov, and B. P. Nikonov. 10, 93 (1968) [10, 125 (1968)]
Thermoelectric Power and Electrical Conductivity of Titanium and Zirconium Monocarbides in the Temperature Range 20–2000°C. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, and G. M. Klimashin. 10, 124 (1968) [10, 168 (1968)]
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butuzov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]
Thermal Conductivity of Solid Methane. (E) V. G. Manzhelii and I. N. Krupskii. 10, 221 (1968) [10, 284 (1968)]
Thermal Radiation from Transparent Dielectrics during Their Fracture under the Action of Laser Light. (E) V. M. Likhachev, V. M. Salmanov, and I. D. Yaroshetskii. 10, 227 (1968) [10, 290 (1968)]
Thermal Conductivity of Plastically Deformed LiF Crystals. (E) I. A. Smirnov and B. I. Smirnov. 10, 244 (1968) [10, 307 (1968)]
Temperature-Induced Changes in the 575 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine-Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]
Electron Paramagnetic Resonance and Thermoluminescence of Irradiated Single Crystals of the Aluminosilicates $NaAlSi_2O_5$ and $LiAlSiO_4$. (E) V. A. Ioffe and I. S. Yanchevskaya. 10, 370 (1968) [10, 472 (1968)]
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mult'anovskaya. 10, 397 (1968) [10, 507 (1968)]
Experimental Determination of the Thermal Vibration Spectrum of White Tin. (E) B. A. Kotov, N. M. Okuneva, and É. L. Plachenova. 10, 402 (1968) [10, 513 (1968)]

Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]

Instability of a Temperature Gradient in a Highly Conductive Crystal of Low Symmetry. (T) L. É. Gurevich and E. F. Shender. 10, 491 (1968) [10, 625 (1968)]

Influence of Temperature on the Elastic Constants of a Te Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 10, 507 (1968) [10, 643 (1968)]

Electron-Microscope Investigation of CdS Single Crystals Subjected to Heat Treatment. (E) V. S. Babinchuk and V. V. Serdyuk. 10, 509 (1968) [10, 645 (1968)]

Temperature Dependence of Elastic Constants of Calcium Fluoride. (E) S. P. Nikanorov, B. K. Kardashev, and N. S. Kas'kovich. 10, 703 (1968) [10, 898 (1968)]

Influence of Strong Doping on Thermal Properties of $TbTe_{0.5}$-$Se_{0.5}$. (E) V. A. Saakyan and V. V. Tikhonov. 10, 724 (1968) [10, 920 (1968)]

Temperature Dependence of the Fundamental Absorption Edge in Triglycine Sulfate. (E) L. M. Guseva and A. S. Sonin. 10, 730 (1968) [10, 925 (1968)]

A Phase Method for Measuring Temperature of Some Anisotropic Crystals. (E) G. V. Krivoshchekov, S. I. Marennikov, and Yu. N. Polivanov. 10, 756 (1968) [10, 953 (1968)]

Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]

The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^{V}$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]

Quantum Oscillations of the Thermomagnetic Coefficients for the Phonon Drag Effect. (T) Yu. M. Gal'perin. 10, 915 (1968) [10, 1152 (1968)]

Evaporation Kinetics of GaAs. (E) S. A. Aitkhozhin, S. A. Semiletov, and V. V. Luder. 10, 1005 (1968) [10, 1259 (1968)]

Temperature Dependence of the Cubic Splitting of the EPR Spectrum of Gd^{3+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 10, 1014 (1968) [10, 1272 (1968)]

Thermal and Electrical Properties of Lanthanum Antimonide. (E) E. V. Goncharova, V. P. Zhuze, V. V. Zhdanova, T. B. Zhukova, I. A. Smirnov, and E. V. Shadrichev. 10, 1052 (1968) [10, 1322 (1968)]

Thermal Conductivity and Lorenz Number of Solid and Liquid Gallium. (T) R. P. Yurchak and B. P. Smirnov. 10, 1065 (1968) [10, 1340 (1968)]

Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

Thermal Conductivity of Complex Magnetic Structures Containing Dislocations. (T) V. V. Tarasenko. 10, 1176 (1968) [10, 1486 (1968)]

Grüneisen Coefficient of an Almost-Degenerate Electron Gas. (T) V. S. Rogov. 10, 1188 (1968) [10, 1502 (1968)]

Influence of Temperature on the Optical Spectra of Centers in Fluorite-Type Single Crystals Activated with Co^{2+} and Ni^{2+} Ions. (E) A. L. Stolov and Zh. S. Yakovleva. 10, 1196 (1968) [10, 1513 (1968)]

Temperature Dependence of Forbidden-Band Width in $PbTe_xSe_{1-x}$ Solid Solutions. (E) E. D. Devyatkova and V. A. Saakyan. 10, 1239 (1968) [10, 1563 (1968)]

Anomalies of Elastic Properties and Internal Friction of a CoO Single Crystal. (E) K. S. Aleksandrov, L. A. Shabanova, and L. M. Reshchikova. 10, 1316 (1968) [10, 1666 (1968)]

Thermal Destruction of F Centers and Dielectric Losses in NaCl and KCl Crystals. (E) Sh. I. Ismailov, Yu. N. Evstifeev, and Yu. L. Lukantsever. 10, 1322 (1968) [10, 1674 (1968)]

Temperature Dependence of the First Magnetocrystalline Anisotropy Constant of Two-Sublattice Ferrimagnets. (E) B. E. Rubinshtein. 10, 1353 (1968) [10, 1715 (1968)]

Thermal Properties of Lithium Niobate Crystals. (E) V. V. Zhdanova, V. P. Klyuev, V. V. Lemanov, I. A. Smirnov, and V. V. Tikhonov. 10, 1360 (1968) [10, 1725 (1968)]

Temperature Dependence of the Anisotropy Energy in a Ferromagnet. (T) S. A. Pikin. 10, 1368 (1968) [10, 1735 (1968)]

Electrical Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 1374 (1968) [10, 1743 (1968)]

Effect of the Complex Valence Band of Sb_2Te_3 on Thermal and Electrical Properties. (E) I. A. Smirnov, A. A. Andreev, and V. A. Kutasov. 10, 1403 (1968) [10, 1782 (1968)]

Thermal Stability of Uranium Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]

Thermal and Electrical Properties of Ferroelectric Triglycine Selenate in the Vicinity of the Curie Point. (E) B. A. Strukov, S. A. Taraskin, and V. M. Varikash. 10, 1445 (1968) [10, 1836 (1968)]

Theory of the High-Temperature Background of Internal Friction. (T/E) B. M. Darinskii, S. K. Turkov, and Yu. A. Fedorov. 10, 1469 (1968) [10, 1869 (1968)]

Temperature Dependence of Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, Ya. M. Soifer, and M. P. Shaskol'skaya. 10, 1549 (1969) [10, 1968 (1968)]

Sound Velocity and Elastic and Thermal Characteristics of Crystalline Nitrogen and Oxygen. (E) P. A. Bezuglyi, L. M. Tarasenko, and Yu. S. Ivanov. 10, 1660 (1969) [10, 2119 (1968)]

Description of Intercrystallite Thermoelastic Internal Friction Using the Von Karman Correlation Function. (T) T. D. Shermergor and V. G. Baryshnikov. 10, 1709 (1969) [10, 2183 (1968)]

The P-T Diagram of the Ferroelectric Crystal NH_4HSO_4. (E) I. N. Polandov, V. P. Mylov, and B. A. Strukov. 10, 1754 (1969) [10, 2232 (1968)]

The Thermal Conductivity of Indium Telluride. (E) V. I. Fedorov and V. I. Machuev. 10, 1786 (1969) [10, 2263 (1968)]

Investigation of Dislocation Processes during Creep of Deformed NaCl and KCl Single Crystals during Heating. (E/T) Ya. E. Geguzin and V. P. Matsokin. 10, 1869 (1969) [10, 2376 (1968)]

Emergence of Dislocations in HgTe Crystals during Annealing in Mercury Vapors. (E/T) G. V. Indenbaum, É. É. Polisar, and A. V. Vanyukov. 10, 1982 (1969) [10, 2524 (1968)]

Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]

The Lorenz Number in HgSe at High Temperatures. (E) I. A. Smirnov and S. A. Aliev. 10, 2080 (1969) [10, 2643 (1968)]

Thermal Investigation on Nd^{3+}-Doped Yttrium Aluminum Garnet. (E) V. A. Sychugov and G. P. Shipulo. 10, 2224 (1969) [10, 2821 (1968)]

Thermal Conductivity and Thermal Diffusivity of Platinum at High Temperatures. (E/T) V. E. Zinov'ev, R. P. Krentsis, and P. V. Gel'd. 10, 2228 (1969) [10, 2826 (1968)]

Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]

Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). (E) R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle. 10, 2359 (1969) [10, 2990 (1968)]

Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1968) [10, 3060 (1968)]

Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitskii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]

Thermal Expansion of Substances Having a Defect Structure of the $A_2^{III}B_3^{VI}$ Type and the Antifluorite Structure. (E) S. I. Novikova. 10, 2481 (1969) [10, 3141 (1968)]

Specific Heat of Single-Crystal RbH_2PO_4. (E) M. Amin and B. A. Strukov. 10, 2498 (1969) [10, 3158 (1968)]
Thermal Expansion of Crystalline Krypton near the Triple Point. (E) V. G. Gavriiko, V. G. Manzhelii, V. I. Kuchnev, and A. M. Tolkachev. 10, 2524 (1969) [10, 3182 (1968)]
Change in Dislocation Structure in Slip Bands of LiF Crystals upon Annealing. (E) I. N. Zimkin and B. I. Smirnov. 10, 2534 (1969) [10, 3192 (1968)]
Temperature Dependence and Mechanisms of Radiative Creation of Electronic Color Centers in KCl and KCl–Ag Crystals. (E) S. M. Muradov and M. A. Élango. 10, 2548 (1969) [10, 3218 (1968)]
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Oskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]
Temperature Dependence of the High-Frequency Band Width of Crystal and Local Vibrations. (E/T) A. A. Klochikhin, T. I. Maksimova, and A. I. Stekhanov. 10, 2617 (1969) [10, 3312 (1968)]
Decreased Lattice Thermal Conductivity of Ge, Si, and Their Solid Solutions. (E) A. V. Ioffe. 10, 2713 (1969) [10, 3430 (1968)]
Thermal Expansion of Tellurium. (E) S. I. Novikova. 10, 2723 (1969) [10, 3439 (1968)]
Estimating the Dimensions of the Klinzig Regions from Data Relating to the Anomalous Part of the Specific Heat of Ferroelectric Phase Transformations. (E) B. N. Rolov. 10, 2725 (1969) [10, 3441 (1968)]
Computation of the Characteristic Temperature of Naphthalene by Use of Atom–Atom Potentials. (T) A. I. Kitaigorodskii and É. I. Mukhtarov. 10, 2757 (1969) [10, 3474 (1968)]
Nonlinear Thermal Conductivity of Dielectrics in the Region of Viscous Flow of a Phonon Gas. (T) Kh. Nil'sen and B. I. Shklovskii. 10, 2857 (1969) [10, 3602 (1968)]
Temperature Dependence of the Cubic Splitting in the EPR Spectrum of Fe^{3+} in $SrTiO_3$ Single Crystals. (E) T. Revai. 10, 2984 (1969) [10, 3744 (1968)]

THERMOELECTRIC PROPERTIES

Coefficient of Thermo-emf of Lanthanum Antimonide for Temperatures of 80–500°K. (E) E. V. Goncharova and I. A. Smirnov. 10, 266 (1968) [10, 329 (1968)]
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]
Thermoelectronic Parameters of the Faces of a Nickel Single Crystal. (E) A. Kashetov and N. A. Gorbatyi. 10, 1673 (1969) [10, 2135 (1968)]
The Lorenz Number in HgSe at High Temperatures. (E) I. A. Smirnov and S. A. Aliev. 10, 2080 (1969) [10, 2643 (1968)]
Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]
Dependence of the Density-of-States Effective Mass on the Current-Carrier Concentration and Temperature in the n-Type Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov and A. R. Regel'. 10, 2513 (1969) [10, 3171 (1968)]
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Iskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]

ERRATA

Vol.	No.	Page	Position	Reads	Should read
9	12	2910	Eq. 4	$\frac{\left(\frac{E}{E_s}-1\right)\frac{I_s}{I_0}}{e^{\beta\omega l}-1}+1=\frac{L}{x_l}$	$\frac{\left(\frac{E}{E_s}-1\right)\frac{I_s}{I_0}}{e^{\beta\omega l}-1}=1-\frac{x_l}{L}$
10	5	1213	Addendum	The instability considered in this work is analogous to the ionization instability of a gas-discharge plasma into crossed electrical and magnetic fields. [E. P. Velikov and A. M. Dykhne. Report of the VI International Symposium on Ionization Phenomena in Gases, Paris (1963)]	
10	6	1325	Addendum	In a recently published paper by G. M. Shmelev [Fiz. Tverd. Tela, 9, 488 (1967); Sov. Phys. – Solid State, 9, 371 (1968)], a theory of acoustic dispersion of polarons based on Feynman's method was developed which is suitable for any coupling constant α. The applicability of Eq. 2, used by us, is restricted by the requirement $\gamma = (4kT/\hbar v)\,[(M/\mu)-1] \ll 1$, where v is the parameter of the theory of [14], equal in our case to $\approx 4\omega$. Conversely, for $\gamma \gg 1$, the formula of [7] is obtained, giving $u \sim \sqrt{T}$. In the case of NaCl $\gamma \approx T/373$; therefore, for $T < 200°$ Eq. 2 remains sufficiently precise. At higher temperatures mobility begins to limit optical dispersion.	